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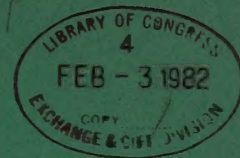




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8856

Bureau of Mines Information Circular/1981



## Analyses of Natural Gases, 1980

By B. J. Moore



UNITED STATES DEPARTMENT OF THE INTERIOR







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UNITED STATES DEPARTMENT OF THE INTERIOR

James G. Watt, Secretary

BUREAU OF MINES

Robert C. Horton, Director



CAB

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

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# ANALYSES OF NATURAL GASES, 1980

by

B. J. Moore <sup>1</sup>

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## INTRODUCTION

This publication contains analyses and related source data for 675 natural gas samples from wells and pipelines in 24 States and 5 foreign countries. The samples obtained and analyzed during calendar year 1980 are included in tables 1-4. Those samples included in tables 5-7 were collected during the years 1960 through 1979. However, permission to publish the analyses of those samples was not given until the past year when the operators were again contacted to seek release of the information. All of these samples were collected as a part of Bureau of Mines investigations of the occurrences of helium in natural gases of countries with free market economies. This survey has been conducted in the United States by the Bureau of Mines since 1917. In late 1965, the survey was expanded to include foreign gasfields. The analyses published herein were made by mass spectrometer and a special helium analysis apparatus, which are described in Bureau of Mines Bulletins 486<sup>2</sup> and 576.<sup>3</sup>

The results of the investigation of the occurrences of helium are published annually to make the information available as soon as possible to the gas industry and the general public. Twenty-two previous publications have presented the results of 12,152 gas analyses made prior to 1980. The first three, Bulletins 486,<sup>4</sup> 576,<sup>5</sup> and 617,<sup>6</sup> contain analyses and related source data on 5,218 gas samples collected from 1917 through 1980. The other

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<sup>1</sup>Chief, Section of Helium Resources Evaluation, Branch of Helium Resources, Division of Helium Operations, Bureau of Mines, Amarillo, Tex.

<sup>2</sup>Anderson, C. C., and H. H. Hinson. Helium-Bearing Natural Gases of the United States. Analyses and Analytical Methods. BuMines Bull. 486, 1951, 141 pp.

<sup>3</sup>Boone, W. J., Jr. Helium-Bearing Natural Gases of the United States. Analyses and Analytical Methods. Supplement to Bulletin 486. BuMines Bull. 576, 1958. 117 pp.

<sup>4</sup>Work cited in footnote 2.

<sup>5</sup>Work cited in footnote 3.

<sup>6</sup>Munnerlyn, R. D., and R. D. Miller. Helium-Bearing Natural Gases of the United States Analyses. Second Supplement to Bulletin 486. BuMines Bull. 617, 1963, 93 pp.



19 publications,<sup>7</sup> which were issued as information circulars, supplement the three bulletins and contain 6,934 analyses of samples collected since 1960. This publication is the 20th publication supplementing the three bulletins.

In 1976, a compilation of the analyses made prior to 1975 was published by the National Technical Information Service of the U.S. Department of Commerce. This compilation, entitled "Analyses of Natural Gases, 1917-74," contains 10,562 analyses of gas samples from oil and gas wells and natural gas pipelines in 37 States and 23 foreign countries. The compilation is available from the National Technical Information Service, Springfield, Va. 22161. Catalog number of the publication is PB 251-202 and the price is \$57.50.

In addition to being included in the publications, all published analyses and related information are available on a magnetic tape file. The tape is also available from the National Technical Information Service, and orders should refer to Bureau of Mines Tape PB 300-996 A/S, \$125.

#### ACKNOWLEDGMENTS

The helium survey program is conducted by soliciting natural gas samples throughout the United States and other countries with free market economies. Without the assistance of the oil industry, State and national agencies, and many individuals engaged in oil and gas exploration and production, the helium survey with its present scope would be impossible.

- 
- <sup>7</sup>Miller, R. D., and G. P. Norrell. Analyses of Natural Gases of the United States, 1961. BuMines IC 8221, 1964, 148 pp.
- \_\_\_\_\_. Analyses of Natural Gases of the United States, 1962. BuMines IC 8239, 1964, 120 pp.
- \_\_\_\_\_. Analyses of Natural Gases of the United States, 1963. BuMines IC 8241, 1965, 102 pp.
- Moore, B. J., R. D. Miller, and R. D. Shrewsbury. Analyses of Natural Gases of the United States, 1964. BuMines IC 8302, 1966, 144 pp.
- Moore, B. J., and R. D. Shrewsbury. Analyses of Natural Gases of the United States, 1965. BuMines IC 8316, 1966, 181 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1966. BuMines IC 8356, 1967, 130 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1967. BuMines IC 8395, 1968, 187 pp.
- Cardwell, L. E., and L. F. Benton. Analyses of Natural Gases, 1968. BuMines IC 8443, 1970, 169 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1969. BuMines IC 8475, 1970, 134 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1970. BuMines IC 8518, 1971, 130 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1971. BuMines IC 8554, 1972, 163 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1972. BuMines IC 8607, 1973, 104 pp.
- Moore, B. J. Analyses of Natural Gases, 1973. BuMines IC 8658, 1974, 96 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1974. BuMines IC 8684, 1975, 122 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1975. BuMines IC 8717, 1976, 82 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1976. BuMines IC 8749, 1977, 94 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1977. BuMines IC 8780, 1978, 95 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1978. BuMines IC 8810, 1979, 113 pp.
- \_\_\_\_\_. Analyses of Natural Gases, 1979. BuMines IC 8833, 1980, 100 pp.

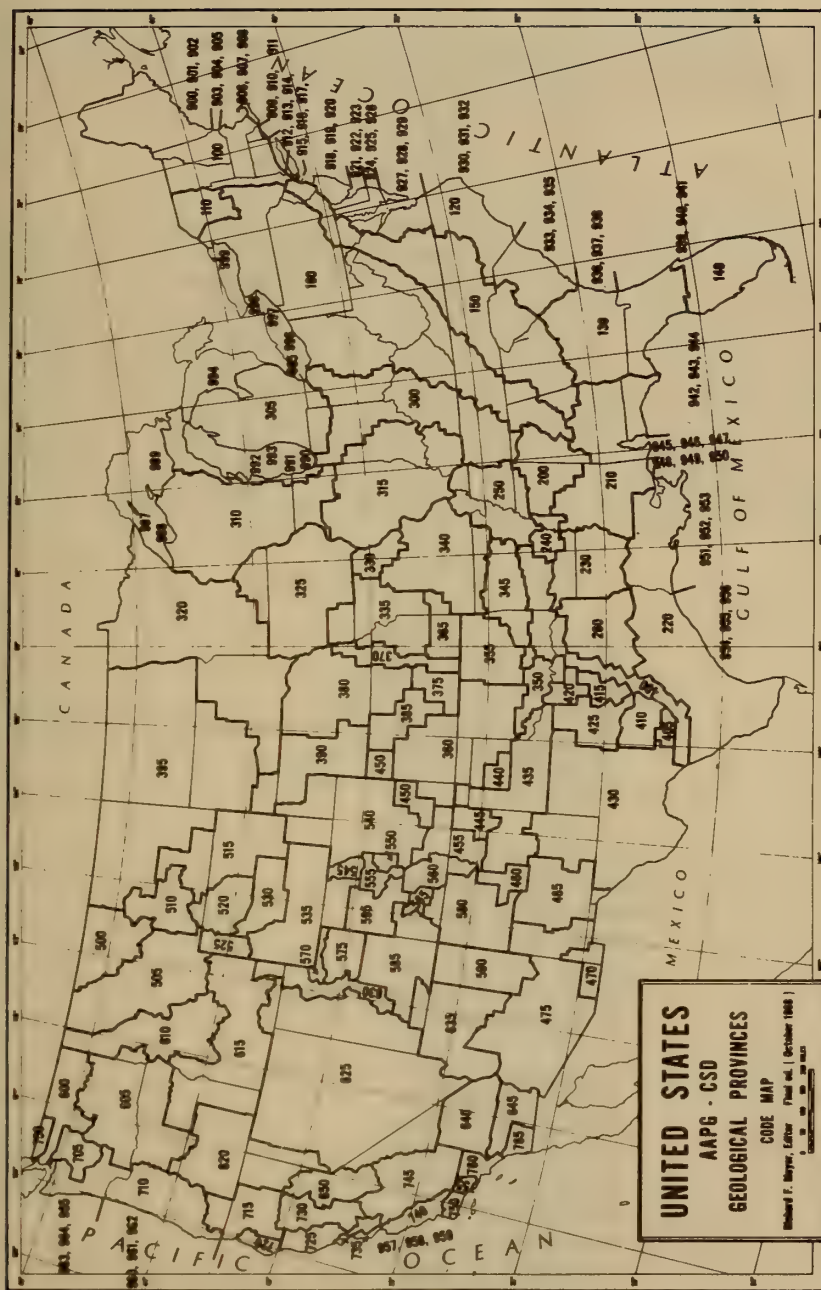


FIGURE 1. - Geologic provinces of the United States.



The analyses listed in the tables were made by the Section of Technical Services, Division of Helium Operations, Bureau of Mines, Amarillo, Tex. The list of analyses was produced through use of a computer by the Section of Automatic Data Processing, Division of Helium Operations, Bureau of Mines, Amarillo, Tex.

#### GEOLOGIC PROVINCES OF THE UNITED STATES

The tables include geologic province codes so that each sample source can be located within a specific geologic province as defined by the Committee on Statistics of Drilling of the American Association of Petroleum Geologists.<sup>8</sup> These provinces, which are given in the following list and shown in figure 1, are delineated by political boundaries for convenience and for accommodation of data processing equipment. The accompanying list and figure 1 are taken from the article cited in footnote 8. Not all of the provinces shown are gas-producing areas, so many of the codes are not used in this publication. In offshore areas, only one code is used for each State since State or Federal ownership is not always known. Only one code, 972, is used for all wells in Alaska, both onshore and offshore, because of the lack of information on the location of wells in that State.

<u>Code</u>	<u>Province</u>
100	New England province
110	Adirondack uplift
120	Atlantic Coast basin
130	South Georgia-North Florida sedimentary province
140	South Florida province
150	Piedmont-Blue Ridge province
160	Appalachian basin
200	Warrior basin
210	Mid-Gulf Coast basin
220	Gulf Coast basin
230	Arkla basin
240	Desha basin
250	Upper Mississippi embayment
260	East Texas basin
300	Cincinnati arch
305	Michigan basin
310	Wisconsin arch
315	Illinois basin
320	Sioux uplift
325	Iowa shelf
330	Lincoln anticline
335	Forest City basin
340	Ozark uplift

---

<sup>8</sup>Meyer, R. F. Geologic Provinces Code Map for Computer Use. AAPG Bull., v. 54/7, July 1970, pp. 1301-1305.

<u>Code</u>	<u>Province</u>
345	Arkoma basin
350	South Oklahoma folded belt province
355	Chautauqua platform
360	Anadarko basin
365	Cherokee basin
370	Nemaha anticline
375	Sedgwick basin
380	Salina basin
385	Central Kansas uplift
390	Chadron arch
395	Williston basin
400	Ouachita tectonic belt province
405	Kerr basin
410	Llano uplift
415	Strawn basin
420	Fort Worth syncline
425	Bend arch
430	Permian basin
435	Palo Duro basin
440	Amarillo arch
445	Sierra Grande uplift
450	Las Animas arch
455	Las Vegas-Raton basin
460	Estancia basin
465	Orogrande basin
470	Pedregosa basin
475	Basin-and-Range province
500	Sweetgrass arch
505	Montana folded belt province
510	Central Montana uplift
515	Powder River basin
520	Big Horn basin
525	Yellowstone province
530	Wind River basin
535	Green River basin
540	Denver basin
545	North Park basin
550	South Park basin
555	Eagle basin
560	San Luis basin
565	San Juan Mountain province
570	Uinta uplift
575	Uinta basin
580	San Juan basin
585	Paradox basin
590	Black Mesa basin
595	Piceance basin



<u>Code</u>	<u>Province</u>
600	Northern Cascade Range--Okanagan
605	Eastern Columbia basin
610	Idaho Mountains province
615	Snake River basin
620	Southern Oregon basin
625	Great Basin province
630	Wasatch uplift
635	Plateau sedimentary province
640	Mojave basin
645	Salton basin
650	Sierra Nevada province
700	Bellingham basin
705	Puget Sound province
710	Western Columbia basin
715	Klamath Mountains province
720	Eel River basin
725	Northern Coast Range province
730	Sacramento basin
735	Santa Cruz basin
740	Coastal basins
745	San Joaquin basin
750	Santa Maria basin
755	Ventura basin
760	Los Angeles basin
765	Capistrano basin
800	Heceta Island area
805	Keku Islands area
810	Gulf of Alaska basin
815	Copper River basin
820	Cook Inlet basin
830	Kandik province
835	Kobuk province
840	Koyukuk province
845	Bristol Bay basin
850	Bethel basin
855	Norton basin
860	Selawik basin
863	Yukon Flats basin
865	Lower Tanana basin
867	Middle Tanana basin
870	Upper Tanana basin
873	Galena basin
875	Innoko basin
877	Minchumina basin
880	Holitna basin
885	Arctic Foothills province
890	Arctic slope basin

<u>Code</u>	<u>Province</u>
900	Maine Atlantic offshore--general
901	Maine Atlantic offshore--State
902	Maine Atlantic offshore--Federal
903	New Hampshire Atlantic offshore--general
904	New Hampshire Atlantic offshore--State
905	New Hampshire Atlantic offshore--Federal
906	Massachusetts Atlantic offshore--general
907	Massachusetts Atlantic offshore--State
908	Massachusetts Atlantic offshore--Federal
909	Rhode Island Atlantic offshore--general
910	Rhode Island Atlantic offshore--State
911	Rhode Island Atlantic offshore--Federal
912	Connecticut Atlantic offshore--general
913	Connecticut Atlantic offshore--State
914	Connecticut Atlantic offshore--Federal
915	New York Atlantic offshore--general
916	New York Atlantic offshore--State
917	New York Atlantic offshore--Federal
918	New Jersey Atlantic offshore--general
919	New Jersey Atlantic offshore--State
920	New Jersey Atlantic offshore--Federal
921	Delaware Atlantic offshore--general
922	Delaware Atlantic offshore--State
923	Delaware Atlantic offshore--Federal
924	Maryland Atlantic offshore--general
925	Maryland Atlantic offshore--State
926	Maryland Atlantic offshore--Federal
927	Virginia Atlantic offshore--general
928	Virginia Atlantic offshore--State
929	Virginia Atlantic offshore--Federal
930	North Carolina Atlantic offshore--general
931	North Carolina Atlantic offshore--State
932	North Carolina Atlantic offshore--Federal
933	South Carolina Atlantic offshore--general
934	South Carolina Atlantic offshore--State
935	South Carolina Atlantic offshore--Federal
936	Georgia Atlantic offshore--general
937	Georgia Atlantic offshore--State
938	Georgia Atlantic offshore--Federal
939	Florida Atlantic offshore--general
940	Florida Atlantic offshore--State
941	Florida Atlantic offshore--Federal
942	Florida Gulf of Mexico offshore--general
943	Florida Gulf of Mexico offshore--State
944	Florida Gulf of Mexico offshore--Federal
945	Alabama Gulf of Mexico offshore--general
946	Alabama Gulf of Mexico offshore--State
947	Alabama Gulf of Mexico offshore--Federal
948	Mississippi Gulf of Mexico offshore--general



<u>Code</u>	<u>Province</u>
949	Mississippi Gulf of Mexico offshore--State
950	Mississippi Gulf of Mexico offshore--Federal
951	Louisiana Gulf of Mexico offshore--general
952	Louisiana Gulf of Mexico offshore--State
953	Louisiana Gulf of Mexico offshore--Federal
954	Texas Gulf of Mexico offshore--general
955	Texas Gulf of Mexico offshore--State
956	Texas Gulf of Mexico offshore--Federal
957	California Pacific offshore--general
958	California Pacific offshore--State
959	California Pacific offshore--Federal
960	Oregon Pacific offshore--general
961	Oregon Pacific offshore--State
962	Oregon Pacific offshore--Federal
963	Washington Pacific offshore--general
964	Washington Pacific offshore--State
965	Washington Pacific offshore--Federal
972	Alaska Arctic offshore--general
973	Alaska Arctic offshore--State
974	Alaska Arctic offshore--Federal
975	Alaska Bering Sea offshore--general
976	Alaska Bering Sea offshore--State
977	Alaska Bering Sea offshore--Federal
978	Alaska Pacific offshore--general
979	Alaska Pacific offshore--State
980	Alaska Pacific offshore--Federal
987	Minnesota Lake Superior offshore
988	Wisconsin Lake Superior offshore
989	Michigan Lake Superior offshore
990	Indiana Lake Michigan offshore
991	Illinois Lake Michigan offshore
992	Wisconsin Lake Michigan offshore
993	Michigan Lake Michigan offshore
994	Michigan Lake Huron offshore
995	Michigan Lake Erie offshore
996	Ohio Lake Erie offshore
997	Pennsylvania Lake Erie offshore
998	New York Lake Erie offshore
999	New York Lake Ontario offshore

## TABLES

The following tables include the results of analyses and related source data from gas samples which are divided into seven groups as follows:

Table 1. - Samples from gas and oil wells in the United States during 1980.

Table 2. - Samples from pipelines in the United States during 1980.

Table 3. - Samples from gas and oil wells in foreign countries during 1980.

Table 4. - Samples from pipelines in foreign countries during 1980.

Table 5. - Samples from gas and oil wells in the United States during 1960-1979.

Table 6. - Samples from pipelines in the United States during 1960-1979.

Table 7. - Samples from gas and oil wells in foreign countries during 1960-1979.

The following list indicates the sources of the samples listed in the tables:

Source	Number of samples	Tables	Source	Number of samples	Tables
Alabama....	4	1, 6	Nebraska.....	4	1-2
Alaska.....	26	1, 5	New Jersey....	1	1
Arizona....	1	1, 5-6	New Mexico....	27	1-2, 5
Arkansas...	15		New York.....	6	1, 5
California..	14	1-2, 5	North Dakota..	3	1, 5
Colorado...	19	1-2, 5	Ohio.....	4	5
Kansas.....	48	1, 5-6	Oklahoma.....	90	1, 5
Kentucky...	6	1, 5	Pennsylvania..	4	1, 5
Louisiana..	50	1, 5	Texas.....	243	1-2, 5-6
Michigan...	3	5	Utah.....	10	1-2, 5
Mississippi	13	1, 5	West Virginia.	25	1, 5
Montana....	5	1	Wyoming.....	34	1-2, 5
Australia..	2	4	Thailand.....	4	7
Bolivia....	8	3	United Kingdom	2	7
Canada.....	4	7			

All components of the analyses in the tables are reported to the nearest 0.1 percent, except helium, which is reported to the nearest 0.01 percent. The word "trace" is used to denote quantities of helium of less than 0.005 percent and quantities of other components of less than 0.05 percent.



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 1 19925	INDEX SAMPLE 2 16053	INDEX SAMPLE 3 16054
STATE.....	ALABAMA	ALABAMA	ALABAMA
COUNTY.....	FAYETTE	LAMAR	LAMAR
FIELD.....	MUSGROVE CREEK	MAGEE LAKE	MAGEE LAKE
WELL NAME.....	SMITH.MO.32-14	SARAH C. SPROUSE NO. 1	SARAH C. SPROUSE NO. 1
LOCATION.....	SEC. 32, T14S, R12W	SEC. 30, T16S, R15W	SEC. 30, T16S, R15W
OWNER.....	GRACE PETROLEUM CORP.	SOUTHLAND ROYALTY CO.	SOUTHLAND ROYALTY CO.
COMPLETED.....	08/28/79	NOT GIVEN	NOT GIVEN
SAMPLED.....	05/20/80	08/08/80	08/08/80
FORMATION.....	MISS-CARTER	MISS-CARTER	CRET-LEWIS
GEOLOGIC PROVINCE CODE.....	200	200	200
DEPTH, FEET.....	2950	4255	4820
WELLHEAD PRESSURE, PSIG.....	1099	900	430
OPEN FLOW, PCFD.....	4739	2200	665
COMPONENT, MOLF PCT			
METHANE.....	97.5	91.6	87.1
ETHANE.....	0.9	4.2	7.3
PROPANE.....	0.1	1.4	2.4
N-BUTANE.....	0.1	0.4	0.6
ISOBUTANE.....	0.0	0.3	0.3
N-PENTANE.....	TRACE	0.2	0.2
ISOPENTANE.....	TRACE	0.2	0.2
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	TRACE	0.2	0.2
NITROGEN.....	1.1	1.0	1.1
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.3	0.5
WELLS.....	0.08	0.11	0.08
HEATING VALUE.....	1010	1094	1137
SPECIFIC GRAVITY.....	0.564	0.621	0.652

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRNHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLF 15689	INDEX SAMPLE 15890	INDEX SAMPLE 15891
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	NORTHWESTERN	NORTHWESTERN	NORTHWESTERN
FIELD.....	BARROW E	BARROW E	BARROW E
WELL NAME.....	WELL NO. 19	WELL NO. 12	WELL NO. 17
LOCATION.....	SEC. 23, T22N, R17W	SEC. 23, T22N, R17W	SEC. 30, T22N, R16W
OWNER.....	HUSKY OIL NPR OPERATIONS INC	HUSKY OIL NPR OPERATIONS INC	HUSKY OIL NPR OPERATIONS INC
COMPLETION.....	05/16/78	05/04/74	04/13/78
SAMPLED.....	01/17/80	01/17/80	01/17/80
FORMATION.....	JURA-BARROW	JURA-BARROW	JURA-BARROW
GEOLOGIC PROVINCE CODE.....	890	890	890
DEPTH, FEET.....	2050	2050	2100
WELLHEAD PRESSURE, PSIG.....	1600	1000	1000
OPEN FLOW, MCF/D.....	7220	360	2960
COMPONENT, MOLF PCT			
METHANE.....	86.1	83.5	94.9
ETHANE.....	0.5	0.4	0.9
PROPANE.....	TRACE	0.2	0.3
N-BUTANE.....	0.1	0.7	0.2
ISOBUTANE.....	0.0	0.1	0.1
N-PENTANE.....	TRACE	0.6	0.1
ISOPENTANE.....	0.1	0.8	0.0
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	TRACE	0.5	0.2
NITROGEN.....	11.8	8.8	3.1
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	TRACE
HELIUM.....	1.22	4.22	0.13
HEATING VALUE.....	889	974	1014
SPECIFIC GRAVITY.....	0.604	0.630	0.587

\* CALCULATED GROSS RTH PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 7 15692	INDEX SAMPLE 8 15997	INDEX SAMPLE 9 16105
STATE.....	ALASKA	ARKANSAS	ARKANSAS
COUNTY.....	NORTHWESTERN	FRANKLIN	JOHNSON
FIELD.....	BARROW E	ROCK CREEK	COAL HILL
WELL NAME.....	WELL NO. 14	STARBUANT NO. 1-15	GREENWOOD NO. 2-31
LOCATION.....	SEC. 29, T22N, R17W	SEC. 15, T11N, R26W	SEC. 31, T10N, R25W
OWNER.....	HUSKY OIL NPR OPERATIONS INC	SEECO INC.	SOUTHERN UNION EXPL. CO.
COMPLETED.....	03/03/77	03/19/80	01/15/80
SAMPLED.....	01/17/80	07/02/80	10/22/80
FORMATION.....	NOT GIVEN	PENN-MORROW	PENN-DUNN A
GEOLOGIC PROVINCE CODE...	890	345	345
DEPTH, FEET.....	2050	2258	3420
WELLHEAD PRESSURE, PSIG...	1000	596	1141
OPEN FLOW, MCFD.....	3700	925	6449
COMPONENT, MOLE PCT			
METHANE.....	94.3	97.3	98.5
ETHANE.....	2.2	1.3	0.8
PROPANE.....	2.0	0.2	0.1
N-BUTANE.....	0.8	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	0.0	1.0	0.3
OXYGEN.....	0.6	TRACE	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.0	0.1	0.2
HELIUM.....	0.05	0.12	0.12
HEATING VALUE.....	1074	1014	1015
SPECIFIC GRAVITY.....	0.600	0.568	0.562

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15938	INDEX SAMPLE 15955	INDEX SAMPLE 15956
STATE.....	ARKANSAS	ARKANSAS	ARKANSAS
COUNTY.....	LOGAN	POPE	POPE
FIELD.....	PAIRIE VIEW	KNOXVILLE	KNOXVILLE
WELL NAME.....	MIDLAND OIL CORP. NO. 1	MARTIN NO. 1	MARTIN NO. 1
LOCATION.....	SEC. 22, T8N, R24W	SEC. 32, T9N, R21W	SEC. 32, T9N, R21W
OWNER.....	SANTA FE ENERGY CO.	SAMSON RESOURCES CO.	SAMSON RESOURCES CO.
COMPLETED.....	NOT GIVEN	11/15/79	11/15/79
SAMPLED.....	04/18/80	04/24/80	04/24/80
FORMATION.....	PENN-ORR	PENN-ARECI	PENN-ARECI
GEOLOGIC PROVINCE CODE.....	345	345	345
DEPTH, FEET.....	6477	3710	3730
WELLHEAD PRESSURE, PSIG.....	650	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	2113	2200	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	94.9	93.6	83.6
ETHANE.....	0.9	1.6	1.4
PROPANE.....	0.1	0.2	0.2
N-BUTANE.....	0.1	TRACE	TRACE
ISOBUTANE.....	0.0	TRACE	TRACE
N-PENTANE.....	TRACE	0.0	TRACE
ISOPENTANE.....	0.1	TRACE	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	TRACE	TRACE
NITROGEN.....	0.9	3.5	11.5
OXYGEN.....	0.0	0.8	3.0
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.6	TRACE	TRACE
HELIUM.....	0.27	0.14	0.12
HEATING VALUE.....	988	982	877
SPECIFIC GRAVITY.....	0.591	0.582	0.627

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 13 15964	INDEX SAMPLE 14 15965	INDEX SAMPLE 15 16087
STATE.....	ARKANSAS	ARKANSAS	ARKANSAS
COUNTY.....	POPE	POPE	POPE
FIELD.....	MORELAND	MORELAND	MORELAND
WELL NAME.....	W. G. BLACKWELL NO. 1	W. G. BLACKWELL NO. 1	CAMMIE VIRDEN NO. 9-1
LOCATION.....	SEC. 7, TAN, R19W	SEC. 7, TAN, R19W	SEC. 9, TAN, R19W
OWNER.....	CHARLES E. MCRAV & ASSOC.	CHARLES E. MCRAV & ASSOC.	GETTY OIL CO.
COMPLETED.....	03/14/80	03/14/80	NOT GIVEN
SAMPLED.....	05/16/80	05/16/80	09/25/80
FORMATION.....	-CLINE	PENN-MCGUIRE	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	345	345	345
DEPTH, FEET.....	5535	4358	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	2025	1425	NOT GIVEN
OPEN FLOW, MCFD.....	1883	9998	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	97.5	97.1	91.5
ETHANE.....	1.1	1.0	1.0
PROPANE.....	0.1	0.1	0.1
N-BUTANE.....	0.0	0.0	TRACE
ISOBUTANE.....	0.0	0.0	TRACE
N-PENTANE.....	0.0	0.0	TRACE
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	TRACE
HEXANES PLUS.....	0.0	0.0	TRACE
NITROGEN.....	0.8	0.9	6.7
OXYGEN.....	0.0	0.0	0.2
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.7	0.3
HELIUM.....	0.10	0.09	0.08
HEATING VALUE.....	1010	1004	947
SPECIFIC GRAVITY.....	0.566	0.570	0.591

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

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TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15940	INDEX SAMPLE 16066	INDEX SAMPLE 16067
STATE.....	ARKANSAS	ARKANSAS	ARKANSAS
COUNTY.....	SEBASTIAN	SEBASTIAN	SEBASTIAN
FIELD.....	MOLLIS LAKE	WITCHERVILLE	WITCHERVILLE
WELL NAME.....	FT CHAFFEE FEDERAL NO.2	FRANKLIN-HOLLAND NO. 1	FRANKLIN HOLLAND NO. 1
LOCATION.....	SEC.26, R31W, R31W	SEC.31, T6N, R30W	SEC.31, T6N, R30W
OWNER.....	GULF OIL EXPL. & PROD. CO.	ARKLA EXPLORATION CO.	ARKLA EXPLORATION CO.
COMPLETE.....	01/29/80	07/21/80	07/21/80
SAMPLED.....	04/16/80	09/16/80	09/16/80
FORMATION.....	PENN-SPIRO	PENN-BOKUM	PENN-TURNER
GEOLOGIC PROVINCE CODE.....	345	345	850
DEPTH, FEET.....	5737	4500	3573
WELLHEAD PRESSURE, PSIG.....	987	760	NOT GIVEN
OPEN FLOW, PCFD.....	2803	5428	5598
COMPONENT, MOLF PCT			
METHANE.....	96.5	96.9	95.2
ETHANE.....	1.3	1.1	1.9
PROPANE.....	0.2	0.1	0.2
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	TRACE	0.0	0.0
N-PENTANE.....	TRACE	0.0	0.0
ISOPEUTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.1	0.0	0.0
HEXANES PLUS.....	0.1	0.0	0.0
NITROGEN.....	0.4	1.7	2.6
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	TRACE	TRACE
HELIUM.....	0.07	0.08	0.05
HEATING VALUE.....	1015	1004	1004
SPECIFIC GRAVITY.....	0.579	0.567	0.576

\* CALCULATED GROSS LTO PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 19 15969	INDEX SAMPLE 20 15996	INDEX SAMPLE 21 16084
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	MERCED	SOLANO	TEHAMA
FIELD.....	O'NEILL FOREBAY DAM	LINDSEY SLOUGH	RICE CREEK E
WELL NAME.....	GAS SEEP	HASTING RANCH NO.1-21	BETTENCOURT NO.1
LOCATION.....	DOWNSTREAM OF DAM	SEC. 21, T 5N, R 2E	SEC. 28, T23N, R2W
OWNER.....	U.S. GOVERNMENT	MCOR O&G CORP.	OXY PETROLEUM, INC.
COMPLETED.....	NOT GIVEN	01/28/80	NOT GIVEN
SAMPLED.....	05/06/80	06/27/80	09/29/80
FORMATION.....	-ALLUVIAN	CKET-PETERSON	CRET-FORBES
GEOLOGIC PROVINCE CODE...	745	730	730
DEPTH, FEET.....	2	9335	4946
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	3250	2220
OPEN FLOW, MCFD.....	NOT GIVEN	16000	2762
COMPONENT, MOLE PCT			
METHANE.....	1.1	91.7	94.5
ETHANE.....	0.1	4.3	0.4
PROPANE.....	TRACE	1.5	TRACE
N-BUTANE.....	TRACE	0.3	TRACE
ISOBUTANE.....	0.1	0.2	TRACE
N-PENTANE.....	TRACE	0.1	TRACE
ISOPENTANE.....	0.0	0.2	0.0
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.1	TRACE
NITROGEN.....	94.7	1.4	4.8
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	0.8	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	3.0	0.1	TRACE
HELIUM.....	0.01	TRACE	0.02
HEATING VALUE*.....	21	1083	964
SPECIFIC GRAVITY.....	0.985	0.615	0.575

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

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TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15988	INDEX SAMPLE 15989	INDEX SAMPLE 15943
STATE.....	COLORADO	COLORADO	COLORADO
COUNTY.....	GARFIELD	GARFIELD	GARFIELD
FIELD.....	BAXTER PASS S	BAXTER PASS S	BRIDLE
WELL NAME.....	UNIT NO. 2-20	GOVERNMENT BUTTRAM NO. 1	FEDERAL NO. 6-13
LOCATION.....	SEC. 20, T 5S, R102W	SEC. 30, T 5S, R102W	SEC. 6, T8S, R104W
OWNER.....	ARCO OIL & GAS CO.	ARCO OIL & GAS CO.	TENNECO OIL EXPL. & PROD.
COMPLETION.....	10/26/59	12/22/58	05/19/79
SAMPLED.....	06/17/80	06/17/80	04/15/80
FORMATION.....	JURA-MORRISON	JURA-MORRISON	CRET-DAKOTA & JURA-MORRISON
GEOLOGIC PROVINCE.....	595	595	595
DEPTH, FEET.....	6959	5934	3724
WELLHEAD PRESSURE, PSIG.....	1280	1537	NOT GIVEN
OPEN FLOW, MCF/D.....	933	1000	3752
COMPONENT, MOLE PCT			
METHANE.....	61.1	59.9	80.5
ETHANE.....	3.1	3.3	4.8
PROPANE.....	1.0	1.2	1.5
N-BUTANE.....	0.4	0.5	0.3
ISOBUTANE.....	0.3	0.3	0.4
N-PENTANE.....	0.1	0.2	0.1
ISOPENTANE.....	0.2	0.2	0.1
CYCLOPENTANE.....	0.1	0.1	0.2
HEXANES PLUS.....	0.2	0.2	0.4
NITROGEN.....	24.9	27.9	10.1
OXYGEN.....	0.0	TRACE	0.5
ARGON.....	0.1	0.1	0.1
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	3.8	5.3	0.7
HELIUM.....	0.84	0.86	0.44
HEATING VALUE.....	751	755	1001
SPECIFIC GRAVITY.....	0.757	0.774	0.672

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

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TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15878	INDEX SAMPLE 16130	INDEX SAMPLE 15928
STATE.....	COLORADO	COLORADO	COLORADO
COUNTY.....	GARFIELD	GARFIELD	LA PLATA
FIELD.....	DOUGLAS CREEK	SOUTH CANYON	IGNACIO BLANCO
WELL NAME.....	FEDERAL NO. 1-15	FEDERAL NO. 9-6	SOUTHERN UTE NO. 30-1
LOCATION.....	SEC. 15, T8S, R105W	SEC. 9, T7S, R104W	SEC. 30, T33N, R9W
OWNER.....	TENNECO OIL CO.	TENNECO OIL CO.	ARCO OIL & GAS CO.
COMPLETED.....	06/09/79	NOT GIVEN	08/23/78
SAMPLED.....	01/08/80	11/06/80	03/31/80
FORMATION.....	CRET-DAKOTA	CRET-DAKOTA	CRET-MESAVERDE
GEOLOGIC PROVINCE CODE.....	595	595	580
DEPTH, FEET.....	3738	6320	5109
WELLHEAD PRESSURE, PSIG...	910	900	1106
OPEN FLOW, MCFD.....	740	3000	2140
COMPONENT, MOLE PCT			
METHANE.....	90.8	65.4	95.2
ETHANE.....	4.6	3.4	1.8
PROPANE.....	1.4	1.0	0.2
N-BUTANE.....	0.3	0.5	0.1
ISOBUTANE.....	0.3	0.1	TRACE
N-PENTANE.....	0.2	0.1	TRACE
ISOPENTANE.....	0.1	0.1	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	1.2	24.1	0.1
OXYGEN.....	0.1	TRACE	0.0
ARGON.....	TRACE	0.1	TRACE
HYDROGEN.....	0.0	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	4.7	2.5
HELIUM.....	0.10	0.42	TRACE
HEATING VALUE*.....	1077	777	1010
SPECIFIC GRAVITY.....	0.621	0.737	0.594

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

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TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15929	INDEX SAMPLE 15957	INDEX SAMPLE 16098
STATE.....	COLORADO	COLORADO	KANSAS
COUNTY.....	LA PLATA	RIO BLANCO	BARBER
FIELD.....	LAGUACIO BLANCO	BAXTER PASS	ADAMS
WELL NAME.....	SOUTHERN UTE NO. 30-1	GOVERNMENT SLOANE NO. 2	SIMPSON NO. 1
LOCATION.....	SEC. 30, T33N, R9W	SEC. 27, T4S, R103W	SEC. 32, T31S, R12W
OWNER.....	ARCO OIL & GAS CO.	ARCO OIL & GAS CO.	ABERCROMBIE DRILLING, INC.
COMPLETED.....	03/25/78	07/03/77	NOT GIVEN
SAMPLED.....	03/31/80	04/27/80	10/16/80
FORMATION.....	CHET-PICTURED CLIFF	JURA-MORRISON	MISS-
GEOLOGIC PROVINCE CODE.....	530	560	375
DEPTH, FEET.....	2969	6820	4200
WELLHEAD PRESSURE, PSIG.....	1335	1050	NOT GIVEN
OPEN FLOW, MCFD.....	269	142	11100
COMPONENT, MOLE PCT			
METHANE.....	90.6	74.9	77.8
ETHANE.....	4.5	4.3	7.2
PROPANE.....	1.2	1.8	3.9
N-BUTANE.....	0.2	0.6	1.0
ISOBUTANE.....	0.4	0.5	0.5
N-PENTANE.....	0.1	0.2	0.3
ISOPENTANE.....	0.2	0.3	0.2
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.1	0.3	0.2
NITROGEN.....	0.2	14.4	8.3
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.0	0.1	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.5	1.1	TRACE
HELIUM.....	TRACE	0.77	0.43
HEATING VALUE*.....	1071	960	1104
SPECIFIC GRAVITY.....	0.634	0.698	0.700

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TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16015	INDEX SAMPLE 15981	INDEX SAMPLE 15980
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	BARBER	COMANCHE	KINGMAN
FIELD.....	CEDAR	WILDCAT	WILDCAT
WELL NAME.....	MILLER NO. 1	HAAS NO. 1	KATZER NO. 1
LOCATION.....	SEC. 36, T33S, R10W	SEC. 19, T34S, R17W	SEC. 10, T30S, R10W
OWNER.....	GEORGE R. JONES	GEORGE R. JONES	RAYMOND OIL CO., INC.
COMPLETED.....	01/09/80	01/19/80	09/01/79
SAMPLED.....	07/10/80	06/11/80	10/06/80
FORMATION.....	MISS-	MISS-	PENN-TOPEKA
GEOLOGIC PROVINCE CODE.....	375	360	375
DEPTH, FEET.....	4569	5239	3156
WELLHEAD PRESSURE, PSIG.....	1600	1680	940
OPEN FLOW, PCFU.....	2015	2443	5400
COMPONENT, MOLE PCT			
METHANE.....	83.1	91.1	76.5
ETHANE.....	5.3	3.1	3.8
PROPANE.....	2.2	1.0	1.9
N-BUTANE.....	0.7	0.3	0.6
ISOBUTANE.....	0.3	0.1	0.3
N-PENTANE.....	0.2	0.1	0.1
ISOPENTANE.....	0.2	0.1	0.3
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	2.4	3.8	15.1
OXYGEN.....	TRACE	0.0	0.3
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.2	0.4
HELIUM.....	0.13	0.13	0.36
HEATING VALUE*.....	1109	1035	954
SPECIFIC GRAVITY.....	0.642	0.612	0.687

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

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TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16107	INDEX SAMPLE 16138	INDEX SAMPLE 15983
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	KIOWA	PRATT	PRATT
FIELD.....	ALFORD	HOPWELL	HOPWELL
WELL NAME.....	KEFAN NO. 1	DOGGETT NO. 4	STAMBAUGH "A" NO. 1
LOCATION.....	SEC. 20, T30S, R19W	SEC. 17, T26S, R5W	SEC. 8, T26S, R15W
OWNER.....	J. MARK RICHARDSON	MULL DRILLING CO.	CITIES SERVICE CO.
COMPLETED.....	NOT GIVEN	05/23/80	03/18/80
SAMPLED.....	10/22/80	12/04/80	06/09/80
FORMATION.....	MISS-	MISS-	MISS-CHERT
GEOLOGIC PROVINCE CODE...	360	385	385
DEPTH, FEET.....	5090	4350	4357
WELLHEAD PRESSURE, PSIG...	700	950	1040
OPEN FLOW, MCFD.....	5800	9000	4260
COMPONENT, MOLE PCT			
METHANE.....	86.7	88.3	88.0
ETHANE.....	3.8	3.7	3.8
PROPANE.....	1.0	1.5	1.4
N-BUTANE.....	0.4	0.5	0.5
ISOBUTANE.....	0.2	0.2	0.2
N-PENTANE.....	0.1	0.1	0.2
ISOPENTANE.....	0.1	0.1	0.2
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.1	0.2	0.2
NITROGEN.....	7.1	4.7	4.9
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	TRACE
HELIUM.....	0.37	0.58	0.62
HEATING VALUE.....	1006	1046	1051
SPECIFIC GRAVITY.....	0.627	0.627	0.631

\* CALCULATED GROSS FLU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

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TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15684	INDEX SAMPLE 15905	INDEX SAMPLE 15902
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	RICE	SEWARD	SEWARD
FIELD.....	FITZPATRICK	ADAMSON	KNEELAND SW
WELL NAME.....	OIL NO. 1	POWELL "D" NO. 1	YORK NO. 1
LOCATION.....	SEC. 24, T21S, R9W	SEC. 26, T34S, R34W	SEC. 27, T24S, R31W
OWNER.....	LEASACK OIL PRODUCTION	ANADARKO PRODUCTION CO.	KANSAS ENERGY INVESTMENT
COMPLETED.....	NOT GIVEN	12/21/79	NOT GIVEN
SAMPLED.....	01/24/80	02/21/80	02/15/80
FORMATION.....	MISS-	PENN-MORROW	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	385	6098	360
DEPTH, FEET.....	319	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	1023	4250	1575
OPEN FLOW, WCFD.....	451B		3664
COMPONENT, MOLE PCT			
METHANE.....	65.7	80.3	85.3
ETHANE.....	13.3	4.6	4.8
PROPANE.....	9.7	2.6	2.5
N-BUTANE.....	3.3	0.8	0.7
ISOBUTANE.....	1.5	0.4	0.3
N-PENTANE.....	1.0	0.3	0.2
ISOPENTANE.....	0.4	0.4	0.1
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.4	0.3	0.1
NITROGEN.....	4.3	9.9	3.1
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.0	0.1	2.7
HELIUM.....	0.29	0.17	0.13
HEATING VALUE*.....	1402	1053	1067
SPECIFIC GRAVITY.....	0.846	0.685	0.666

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
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TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16141	INDEX SAMPLE 15911	INDEX SAMPLE 42 16139
STATE.....	KANSAS	KANSAS	KENTUCKY
COUNTY.....	SEWARD	SUMNER	PERRY
FIELD.....	NOT GIVEN	STUHLSATZ	COCKEREL
WELL NAME.....	HACKER UNIT NO. 2-1	JORDAN TRUST NO. 1	N. CLAIBOURNE NO. 7309
LOCATION.....	SEC. 1, T34S, R34W	SEC. 24, T30S, R2W	CARTER COORDINATE 7-N-76
OWNER.....	CAROT CORP.	STELBAP OIL CORP.	KENTUCKY W. VIRGINIA GAS CO.
COMPLETION.....	08/01/80	05/18/79	05/14/80
SAMPLED.....	12/08/80	02/31/80	11/26/80
FORMATION.....	PENN-MORRIS	PENN-STALNAKER	MISS-BIG LINE
DEPTH, FEET.....	360	375	160
WELLHEAD PRESSURE, PSIG.....	6024	2812	1756
OPEN FLOW PCF.....	1620	991	525
COMPONENT, MOLE PC1	5000	4451	4169
METHANE.....	63.4	83.5	81.1
ETHANE.....	5.1	4.8	8.9
PROPANE.....	3.4	2.5	3.2
N-BUTANE.....	1.2	0.9	0.7
ISOBUTANE.....	0.6	0.3	0.2
N-PENTANE.....	0.3	0.2	0.1
ISOPENTANE.....	9.4	0.3	TRACE
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.2	0.2	TRACE
NITROGEN.....	5.1	6.5	0.1
OXYGEN.....	0.0	0.5	5.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.0
HELIUM.....	0.18	0.20	TRACE
HEATING VALUE.....	1129	1069	0.35
SPECIFIC GRAVITY.....	0.683	0.666	1108
			0.669

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16075	INDEX SAMPLE 16102	INDEX SAMPLE 16150
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	BIENVILLE	CALCASTEU	CAMERON
FIELD.....	LUCKY	CHLOE	JOHNSON BAYOU
WELL NAME.....	TORIN NO. 1	TOBILAR INC. NO. 1	9000 RA SAU, SCHUH NO. 1
LOCATION.....	SEC. 18, T15N, R6W	SEC. 36, T9S, R8W	SEC. 5, T15S, R14W
OWNER.....	PLACID OIL CO.	MC MORAN EXPLORATION CO.	GREAT SOUTHERN O&G CO, INC.
COMPLETED.....	08/22/79	10/07/88	02/13/80
SAMPLED.....	09/22/80	10/17/80	12/06/80
FORMATION.....	JURA-COTTON VALLEY	MIOC-HACKBERRY	MIOC-
GEOLOGIC PROVINCE CODE.....	230	220	220
DEPTH, FEET.....	9987	11592	9000
WELLHEAD PRESSURE, PSIG.....	4100	5100	3100
OPEN FLOW, MCFD.....	8000	2000	400
COMPONENT, MOLE PCT			
METHANE.....	94.9	91.1	90.6
ETHANE.....	1.3	5.3	4.4
PROPANE.....	0.2	1.4	1.6
N-BUTANE.....	0.1	0.3	0.3
ISOBUTANE.....	0.1	0.3	0.7
N-PENTANE.....	TRACE	0.1	0.1
ISOPENTANE.....	TRACE	0.2	0.3
CYCLOPENTANE.....	TRACE	0.1	0.4
HEXANES PLUS.....	0.1	0.2	0.8
NITROGEN.....	0.6	0.3	0.6
OXYGEN.....	TRACE	0.1	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.7	0.5	0.2
HELIUM.....	0.01	TRACE	TRACE
HEATING VALUE*.....	1002	1101	1145
SPECIFIC GRAVITY.....	0.597	0.622	0.646

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15924	INDEX SAMPLE 15913	INDEX SAMPLE 48 16046
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
CASE NO.....	CASE NO.	F. BAYON ROUGE	IBERVILLE
FIELD.....	LAKE ARTHUR SW	PORT HUDSON	MARINGOUIN
WELL NAME.....	WHITE RICE NO. 1	GEORGIA PACIFIC NO. 1	E. G. HYNES ET AL NO. 1
LOCATION.....	SEC. 2, T12S, R3W	SEC. 64, T4S, R2W	SEC. 98, T7S, R9E
OWNER.....	AMERICAN GASAR PET. CO.	AMOCO PRODUCING CO.	RIO BRAVO OIL CO.
COMPLETION.....	01/07/80	12/17/77	08/31/78
SAMPLED.....	03/14/80	02/28/80	08/11/80
FORMATION.....	-224W	CRET-TUSCALOOSA	OLIG-FRIO
DEPTH, FEET.....	220	220	220
WELLHEAD PRESSURE, PSIG.....	12510	16616	9402
OPEN FLOW, "CPU.....	2400	4925	3400
COMPONENT, PULF PCF	4000	9300	1000
METHANE.....	89.7	83.7	91.1
ETHANE.....	5.3	4.3	3.8
PROPANE.....	2.1	1.7	1.9
MBUTANE.....	0.5	0.5	0.5
ISOBUTANE.....	0.9	0.5	0.6
NAPHTHANE.....	0.1	0.2	0.2
ISOPENTHANE.....	0.3	0.3	0.3
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.3	0.4
HEPTANES.....	0.1	1.7	1.0
NONANES.....	0.0	0.3	0.1
OXIGEN.....	0.0	TRACE	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.7	6.3	TRACE
HELIUM.....	TRACE	0.01	0.01
HEATING VALUE**.....	1136	1043	1123
SPECIFIC GRAVITY.....	0.645	0.696	0.635

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15883	INDEX SAMPLE 15935	INDEX SAMPLE 16026
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	JACKSON	LAFOURCHE	PLAQUEMINES
FIELD.....	DARVILLE	CUT OFF	DRAKES BAY
WELL NAME.....	HOOGE-HUNT NO. 1	E. P. BRAND NO. 1	LL&E NO. 1
LOCATION.....	SEC. 30, T14N, R4W	SEC. 3, T18S, R21E	SEC. 33, T20S, R29E
OWNER.....	JUSTISS-WEARS OIL CO.	MCALLESTER FUEL CO.	C&K PETROLEUM, INC.
COMPLETED.....	09/17/79	12/20/78	01/10/78
SAMPLED.....	01/16/80	04/10/80	07/30/80
FORMATION.....	CRET-HOSSSTON	MIOC-UL-2	MIOC-
GEOLOGIC PROVINCE CODE.....	230	220	220
DEPTH, FEET.....	8443	13867	10732
WELLHEAD PRESSURE, PSIG.....	1350	9160	1000
OPEN FLOW, MCFD.....	1581	200000	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	95.1	94.9	95.7
ETHANE.....	0.2	2.9	1.6
PROPANE.....	0.1	0.7	0.8
N-BUTANE.....	0.0	0.2	0.3
ISOBUTANE.....	0.0	0.2	0.2
N-PENTANE.....	0.0	0.1	0.2
ISOPENTANE.....	0.0	0.1	0.1
CYCLOPENTANE.....	0.0	TRACE	0.1
HEXANES PLUS.....	0.0	0.1	0.2
NITROGEN.....	2.4	0.3	0.4
OXYGEN.....	0.1	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.1	0.5	0.4
HELIUM.....	0.05	TRACE	0.01
HEATING VALUE**.....	970	1059	1063
SPECIFIC GRAVITY.....	0.587	0.594	0.596

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ASSUMPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16057	INDEX SAMPLE 16055	INDEX SAMPLE 15948
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	BOULDER	ST. BERNARD	VERMILION
FIELD.....	JUDGE BIGBY	RIGOLETS	FLORENCE S
WELL NAME.....	LE BLANC-LE JUENE NO. 1	STATE LEASE 6651 NO. 2	E. M. WATKINS NO. 33
LOCATION.....	SEC. 65, T4S, R10E	T11S, R16E, LAKE BORGNE	SEC. 25, T13S, R2W
OWNER.....	CHEVRON U.S.A. INC.	CHEVRON U.S.A. INC.	AMOCO PRODUCTION CO.
COMPLETION.....	09/14/79	05/02/80	07/12/79
SAMPLED.....	04/26/80	08/20/80	04/02/80
FORMATION.....	CHIFF-TUSCALOOSA	NOT GIVEN	-P-3 SAND
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	20490	13777	11028
WELLHEAD PRESSURE, PSIG.....	10140	3200	3800
OPEN FLOW, PCFD.....	17460	1700	1000
COMPONENT, MOLE PCT			
METHANE.....	89.8	86.3	95.1
ETHANE.....	2.2	6.1	2.4
PROPANE.....	0.4	2.3	0.7
N-BUTANE.....	0.1	0.6	0.2
ISOBUTANE.....	0.1	0.4	0.2
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	TRACE	0.2	TRACE
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES, FLHS.....	0.1	0.2	0.2
NITROGEN.....	0.2	0.9	0.3
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	7.0	2.8	0.6
HELIUM.....	0.02	0.01	TRACE
HEATING VALUE.....	976	1104	1056
SPECIFIC GRAVITY.....	0.645	0.666	0.595

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15978	INDEX SAMPLE 15909	INDEX SAMPLE 15910
STATE.....	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI
COUNTY.....	CLAY	JEFFERSON DAVIS	JEFFERSON DAVIS
FIELD.....	WILDCAT	CARSON	CARSON
WELL NAME.....	JAMES C. FOSTER NO. 1	MAGNOLIA NO. 1	MAGNOLIA NO. 1
LOCATION.....	SEC. 29, T16S, R6E	SEC. 11, T7N, R18W	SEC. 11, T7N, R18W
OWNER.....	SHELL OIL CO.	FOREST OIL CORP.	FOREST OIL CORP.
COMPLETED.....	NOT GIVEN	10/--/78	10/99/78
SAMPLED.....	NOT GIVEN	02/24/80	02/24/80
FORMATION.....	CRET-LEWIS	CRET-HOSSION	-SINCLAIR
GEOLOGIC PROVINCE CODE...	200	210	210
DEPTH, FEET.....	10310	14766	14605
WELLHEAD PRESSURE, PSIG...	946	4600	3237
OPEN FLOW, MCFD.....	2610	1600	5300
COMPONENT, MOLE PCT			
METHANE.....	91.5	88.5	93.0
ETHANE.....	5.5	3.7	1.5
PROPANE.....	1.3	1.5	0.4
N-BUTANE.....	0.3	0.7	0.2
ISOBUTANE.....	0.2	0.5	0.1
N-PENTANE.....	0.1	0.3	0.2
ISOPENTANE.....	0.1	0.2	TRACE
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.3	0.2
NITROGEN.....	0.3	1.4	1.7
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	2.9	2.6
HELIUM.....	0.03	0.02	0.03
HEATING VALUE*.....	1090	1083	1008
SPECIFIC GRAVITY.....	0.614	0.659	0.611

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 156	INDEX SAMPLE 15949	INDEX SAMPLE 15968
STATE.....	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI
COUNTY.....	JEFFERSON DAVIS	JEFFERSON DAVIS	LAMAR
FIELD.....	GREEN'S CREEK	GREEN'S CREEK	TATUM'S CAMP
WELL NAME.....	W. H. LANGSTON NO. 1	DALE UNIT 8-10 NO. 1	ROSS BEATTY NO. 8-7
LOCATION.....	SEC. 4, T5N, R19W	SEC. 8, T5N, R19W	SEC. 8, T3N, R15W
OWNER.....	MARION CORP.	HARKINS & CO.	SUN GAS CO.
COMPLETION.....	10/11/79	09/22/79	07/19/79
SAMPLED.....	08/11/80	04/22/80	05/27/80
FORMATION.....	CRET-SLIGO	CRET-HOSSTON	CRET-HOSSTON
GEOLOGIC PROVINCE CODE.....	210	210	210
DEPTH, FEET.....	15740	16272	15699
WELLHEAD PRESSURE, PSIG.....	6000	5800	5200
OPEN FLOW, MCFD.....	3400	5500	3843
COMPONENT, MOLE PCT			
NITRANE.....	94.0	89.0	90.3
ETHANE.....	0.3	0.3	0.8
PROPANE.....	0.1	0.1	0.4
N-BUTANE.....	0.1	0.1	0.3
ISOBUTANE.....	TRACE	0.1	0.3
N-PENTANE.....	TRACE	0.1	0.2
ISOPENTANE.....	TRACE	0.1	0.1
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.1	0.2	0.4
NITROGEN.....	1.2	4.4	2.3
OXYGEN.....	0.0	0.9	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	4.1	4.8	4.8
HELIUM.....	0.03	0.02	0.03
HEATING VALUE**.....	969	935	997
SPECIFIC GRAVITY.....	0.605	0.639	0.645

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 61 15931	INDEX SAMPLE 62 15993	INDEX SAMPLE 63 15880
STATE.....	MISSISSIPPI	MONTANA	MONTANA
COUNTY.....	LOWNDES	BLAINE	CHOUTEAU
FIELD.....	CALENDONIA	BLACK COULEE	CHIP CREEK
WELL NAME.....	SMITH NO. 1-4	STATE NO. 14-36	STATE NO. 2-16
LOCATION.....	SEC. 4, T16S, R17W	SEC. 36, T32N, R18E	SEC. 16, T26N, R17E
OWNER.....	ELF AQUITAINE OIL & GAS	MONTANA POWER CO.	CANKEE OIL & GAS CO.
COMPLETION.....	12/23/79	12/26/79	08/29/79
SAMPLED.....	03/25/80	06/24/80	01/10/80
FORMATION.....	MISS-CARTER	CRET-EAGLE	CRET-EAGLE
GEOLOGIC PROVINCE CODE...	200	395	500
DEPTH, FEET.....	4552	1148	1444
WELLHEAD PRESSURE, PSIG...	1960	349	389
OPEN FLOW, MCFD.....	2700	3215	2125
COMPONENT, MOLE PER			
METHANE.....	94.5	95.6	91.4
ETHANE.....	3.0	0.5	0.4
PROPANE.....	0.2	0.1	0.1
N-BUTANE.....	TRACE	TRACE	0.1
ISOBUTANE.....	0.2	TRACE	0.0
N-PENTANE.....	0.0	TRACE	TRACE
ISOPENTANE.....	0.1	0.0	TRACE
CYCLOPENTANE.....	0.2	TRACE	TRACE
HEXANES PLUS.....	0.1	TRACE	TRACE
NITROGEN.....	1.0	3.6	7.7
OXYGEN.....	0.1	0.0	TRACE
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.1	0.1
HELIUM.....	0.10	0.08	0.13
HEATING VALUE.....	1940	960	939
SPECIFIC GRAVITY.....	0.590	0.573	0.591

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16153	INDEX SAMPLE 15966	INDEX SAMPLE 16014
STATE.....	MONTANA	MONTANA	MONTANA
COUNTY.....	HILL	LIBERTY	TOOLE
FIELD.....	GILFORD	OBRIENS COULEE	KEVIN-SUNBURST
WELL NAME.....	ARGONUM NO. 1-7	STATE NO. 6-17	POTLATCH O&R NCT-NO. 1
LOCATION.....	SEC. 7, T33N, R11E	SEC. 17, T35N, R7E	SEC. 29, T34N, R1W
OWNER.....	LARIO OIL AND GAS CO.	MONTANA POWER CO.	TEXACO INC.
COMPLETED.....	12/16/80	05/19/80	10/20/79
SAMPLED.....	12/17/80	05/16/80	07/17/80
FORMATION.....	JURA-SAWTOOTH	-WHITE SPECS	DEVO-DUPEROW
GEOLOGIC PROVINCE CODE...	500	500	500
DEPTH, FEET.....	3489	1752	2959
WELLHEAD PRESSURE, PSIG...	1594	571	730
OPEN FLOW, MCFD.....	4855	1630	10000
COMPONENT, MOLE PCT			
METHANE.....	96.6	91.2	5.4
ETHANE.....	0.1	0.4	0.5
PROPANE.....	0.1	0.1	0.1
N-BUTANE.....	0.1	0.0	0.0
ISOBUTANE.....	0.1	0.0	0.0
N-PENTANE.....	0.1	0.0	0.0
ISOPENTANE.....	TRACE	0.0	0.0
CYCLOPENTANE.....	0.1	0.0	0.0
HEXANES, PLUS.....	0.2	0.0	0.0
NITROGEN.....	1.2	8.1	15.7
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	0.0	0.0	0.2
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.4	0.1	77.1
HELIUM.....	0.02	0.16	0.87
HEATING VALUE.....	1008	934	67
SPECIFIC GRAVITY.....	0.586	0.592	1.370

\* CALCULATED GROSS BPD PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 67 16072	INDEX SAMPLE 68 16073	INDEX SAMPLE 69 15967
STATE.....	NEBRASKA	NEBRASKA	NEW JERSEY
COUNTY.....	LINCOLN	LINCOLN	OFFSHORE
FIELD.....	WILDCAT	WILDCAT	MID ATLANTIC
WELL NAME.....	BROWN NO. 2	BROWN NO. 2	FEDERAL WATERS N.J. 18-3
LOCATION.....	SEC. 14, T16N, R33W	SEC. 14, T16N, R33W	BLK. 598, OCS-A-0028
OWNER.....	MARSHALL R. YOUNG OIL CO.	MARSHALL R. YOUNG OIL CO.	TEXACO INC.
COMPLETED.....	10/10/79	10/10/79	05/14/80
SAMPLED.....	09/11/80	09/11/80	05/14/80
FORMATION.....	CRET-DAKOTA	CRET-NIORRARA	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	390	390	120
DEPTH, FEET.....	1938	1272	12974
WELLHEAD PRESSURE, PSIG.....	300	400	10
OPEN FLOW, MCFD.....	3000	174	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	63.6	63.8	94.1
ETHANE.....	0.3	0.6	2.0
PROPANE.....	TRACE	0.1	0.8
N-BUTANE.....	TRACE	TRACE	0.1
ISOBUTANE.....	TRACE	TRACE	TRACE
N-PENTANE.....	TRACE	TRACE	0.0
ISOPENTANE.....	0.0	TRACE	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	TRACE	TRACE
NITROGEN.....	35.4	35.1	1.1
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.1	0.1	TRACE
HYDROGEN.....	0.0	0.0	0.2
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	1.7
HELIUM.....	0.31	0.15	0.02
HEATING VALUE.....	655	660	1018
SPECIFIC GRAVITY.....	0.704	0.703	0.596

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 70 16064	INDEX SAMPLE 71 16145	INDEX SAMPLE 72 15918
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	EDDY	LEA	LEA
FIELD.....	TURKEY TRACK	BELL LAKE M.	BLINEBRY
WELL NAME.....	STATE HL11 NO. 1	BELL LAKE NO. 1	OLLIE J. BOYD NO. 2
LOCATION.....	SEC. 11, 119S, R29E	SEC. 18, 123S, R34E	SEC. 23, 122S, R37E
OWNER.....	TENJECO OIL CO.	RTA OIL PRODUCERS	ARCO OIL & GAS CO.
COMPLETION.....	11/09/79	05/20/80	07/26/77
SAMPLED.....	08/28/80	12/08/80	03/14/80
FORMATION.....	PENN-ATOKA	DELVO-	PERM-BLINEBRY
DEPTH, FEET.....	10800	430	430
WELLHEAD PRESSURE, PSIG.....	3500	14660	5368
OPEN FLOW, MCFD.....	4836	NOT GIVEN	571
COMPONENT, MOLE PCT		4819	2609
METHANE.....	88.1	92.7	81.0
ETHANE.....	6.5	2.8	9.8
PROPANE.....	2.3	0.6	4.6
N-BUTANE.....	0.5	TRACE	1.3
ISOBUTANE.....	0.4	0.1	0.6
N-PENTANE.....	0.1	0.1	0.4
ISOPENTANE.....	0.3	0.1	0.1
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	1.2	1.9	1.8
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.1	0.0
CARBON DIOXIDE.....	0.3	1.4	0.0
HELIUM.....	0.03	0.07	0.03
HEATING VALUE.....	1130	1022	1215
SPECIFIC GRAVITY.....	0.646	0.604	0.701

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15923	INDEX SAMPLE 16092	INDEX SAMPLE 16108
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	LEA	LEA	RIO ARRIBA
FIELD.....	HLIERRY OIL	NOT GIVEN	GOBERNADOR
WELL NAME.....	S. J. SARKEY NO. 1	STATE NO. 1	SAN JUAN 29-5 UNIT NO. 97
LOCATION.....	SEC. 26, T16S, R37E	SEC. 2, T19S, R34E	SEC. 15, T29N, R5W
OWNER.....	ARCO OIL & GAS CO.	KNOX INDUSTRIES, INC.	NORTHWEST PIPELINE CORP.
COMPLETED.....	04/12/49	05/21/80	06/18/80
SAMPLED.....	03/21/80	10/13/80	10/22/80
FORMATION.....	PERO-BLINEBRY	PENN-MORROW	CRET-PICTURED CLIFF
GEOLOGIC PROVINCE CODE...	430	430	580
DEPTH, FEET.....	5746	13571	3782
WELLHEAD PRESSURE, PSIG...	325	4216	953
OPEN FLOW, MCFD.....	60	8090	3047
COMPONENT, MOLE PER			
METHANE.....	73.9	55.3	89.2
ETHANE.....	9.9	21.6	5.3
PROPANE.....	4.6	12.6	2.6
N-BUTANE.....	1.2	2.8	0.7
ISOBUTANE.....	0.7	1.7	0.4
N-PENTANE.....	0.1	0.4	0.2
ISOPENTANE.....	0.7	0.6	0.1
CYCLOPENTANE.....	0.4	0.1	TRACE
HEXANES PLUS.....	0.7	0.3	0.1
NITROGEN.....	1.7	3.1	0.9
OXYGEN.....	TRACE	0.9	0.2
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.0	0.6	0.3
HELIUM.....	0.02	TRACE	TRACE
HEATING VALUE*.....	1255	1488	1121
SPECIFIC GRAVITY.....	0.725	0.908	0.639

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE	76 19613	INDEX SAMPLE	77 15914	INDEX SAMPLE	78 15915
STATE.....	NEW MEXICO		NEW MEXICO		NEW MEXICO	
COUNTY.....	SAN JUAN		SAN JUAN		SAN JUAN	
FIELD.....	BLOOMFIELD		NAVAJO CITY		NAVAJO CITY	
WELL NAME.....	JAVIS GAS COM-G NO. 1		LIVELY NO. 7Y		LIVELY NO. 7Y	
LOCATION.....	SEC. 27, 125N, 111W		SEC. 35, T30N, R8W		SEC. 35, T30N, R8W	
OWNER.....	AROCO PRODUCTION CO.		LIVELY EXPLORATION CO.		LIVELY EXPLORATION CO.	
COMPLETION.....	05/-/80		04/19/74		04/19/74	
SAMPLED.....	07/17/80		03/06/80		03/06/80	
FORMATION.....	CRET-CHACRA		CRET-DAKOTA		CRET-CHACRA	
GEOLOGIC PROVINCE.....	SR0		560		580	
DEPTH, FEET.....	2827		7249		3700	
WELLHEAD PRESSURE, PSIG.....	1120		NOT GIVEN		748	
OPEN FLOW, PCFD.....	NOT GIVEN		1817		4545	
COMPONENT, 10LF PC1						
METHANE.....	85.4		87.9		88.9	
ETHANE.....	5.3		6.1		6.2	
PROPANE.....	2.8		2.4		2.3	
N-BUTANE.....	0.7		0.6		0.6	
ISOBUTANE.....	0.5		0.5		0.4	
N-PENTANE.....	0.2		0.1		0.1	
ISOPENTANE.....	0.2		0.5		0.2	
CYCLOHEPTANE.....	0.1		0.2		0.1	
HEXANES PLUS.....	0.1		0.4		0.2	
NITROGEN.....	5.7		0.2		0.0	
OXYGEN.....	0.1		TRACE		TRACE	
ARGON.....	TRACE		0.0		TRACE	
HYDROGEN.....	TRACE		TRACE		TRACE	
HYDROGEN SULFIDE**.....	0.0		0.0		0.0	
CARBON DIOXIDE.....	TRACE		0.9		1.0	
HELIUM.....	5.02		0.01		0.01	
HEATING VALUE.....	1117		1153		1132	
SPECIFIC GRAVITY.....	0.660		0.659		0.646	

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 79 15874	INDEX SAMPLE 80 15896	INDEX SAMPLE 81 15897
STATE.....	NEW MEXICO	NEW YORK	NEW YORK
COUNTY.....	SAN JUAN	ALLEGANY	ALLEGANY
FIELD.....	PICTURED CLIFFS	NOT GIVEN	NOT GIVEN
WELL NAME.....	NORTHEAST BLANCC NO. 204	BENTLEY 20614-C	BENTLEY 20614-T
LOCATION.....	SEC. 1, T31N, R7W	TOWN OF GRANGER	TOWN OF GRANGER
OWNER.....	BLACKWOOD & NICHOLS CO.	COLUMBIA GAS TRANSMISSION	COLUMBIA GAS TRANSMISSION
COMPLETED.....	08/21/79	01/24/79	01/24/79
SAMPLED.....	01/04/80	01/28/80	01/28/80
FORMATION.....	CRET-FRUITLAND	DEVO-	DEVO-ORISKANY
GEOLOGIC PROVINCE CODE.....	580	160	160
DEPTH, FEET.....	3404	NOT GIVEN	3050
WELLHEAD PRESSURE, PSIG.....	1420	NOT GIVEN	NOT GIVEN
OPEN FLOW, PCFD.....	5914	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	87.2	79.1	74.7
ETHANE.....	6.7	13.3	15.8
PROPANE.....	2.8	4.4	7.0
N-BUTANE.....	0.5	1.3	1.3
ISOBUTANE.....	0.4	0.6	0.7
N-PENTANE.....	0.1	0.4	0.3
ISOPENTANE.....	0.2	0.1	0.0
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	0.4	0.4	0.0
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.4	0.1	0.0
HELIUM.....	TRACE	0.02	TRACE
HEATING VALUE.....	1124	1249	1307
SPECIFIC GRAVITY.....	0.652	0.710	0.741

\* CALCULATED GROSS BTU PER CU FT. GRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE	R2 15906	INDEX SAMPLE	83 15945	INDEX SAMPLE	84 15939
STATE.....	NEW YORK		NEW YORK		NEW YORK	
COUNTY.....	CATTARAUGUS		CATTARAUGUS		ERIE	
FIELD.....	HRAUFORD		HRAUFORD		NOT GIVEN	
WELL NO.....	9. S. NO. 3		GUINLAN F NO. 2		NATURAL SEEP	
LOCATION.....	TOWN OF OLFAN		TOWN OF OLFAN		TOWN OF EDEN	
OWNER.....	HARLOW 100 DEVELOPMENT		PENNZOIL CO.		BUREAU OF MINERAL RESOURCES	
COMPLETED.....	NOT GIVEN		01/20/80		NOT GIVEN	
SAMPLED.....	02/23/80		DEVOT-		04/08/80	
FORMATION.....	DEVOT-HRAUFORD		160		DEVOT-SHALE	
GEOLOGIC PROVINCE (CONF.)	160		NOT GIVEN		NOT GIVEN	
DEPTH FEET.....	NOT GIVEN		NOT GIVEN		NOT GIVEN	
WELLHEAD PRESSURE PSIG.....	40		NOT GIVEN		NOT GIVEN	
OPEN FLOW MCFD.....	NOT GIVEN					
COMPOUND, NOLF PCT						
METHANE.....	71.2		79.8		71.3	
ETHANE.....	17.1		12.7		15.1	
PROPANE.....	7.3		4.3		7.8	
N-BUTANE.....	1.7		1.0		1.6	
ISOBUTANE.....	0.9		0.5		0.6	
N-PENTANE.....	0.5		0.2		0.2	
ISOPENTANE.....	0.4		0.2		0.3	
CYCLOPENTANE.....	TRACE		TRACE		TRACE	
HEXANES PLUS.....	0.1		0.1		0.1	
NITROGEN.....	0.4		1.2		2.2	
OXYGEN.....	TRACE		TRACE		0.1	
ARGON.....	TRACE		0.0		TRACE	
HYDROGEN.....	0.4		0.0		0.0	
HYDROGEN SULFIDE**.....	0.0		0.0		0.0	
CARBON DIOXIDE.....	0.0		TRACE		0.7	
HELIUM.....	0.05		0.02		0.02	
HEATING VALUE**.....	1341		1220		1296	
SPECIFIC GRAVITY.....	0.766		0.698		0.769	

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 85 15995	INDEX SAMPLE 86 15900	INDEX SAMPLE 87 15936
STATE.....	NEW YORK	NEW YORK	NORTH DAKOTA
COUNTY.....	GENESEE	SCHUYLER	BILLINGS
FIELD.....	INDIAN FALLS	NOT GIVEN	BIG STICK W
WELL NAME.....	KLOTZBACH	PRATT NO. 20611-T	FEDERAL NO.8-24
LOCATION.....	TOWN OF ALABAMA	TOWN OF READING	SEC. 24,T142N, R101W
OWNER.....	JUD NORLE & ASSOCIATES	COLUMBIA GAS TRANSMISSION	KOCH EXPLORATION CO.
COMPLETED.....	10/25/74	05/23/79	01/13/80
SAMPLED.....	01/30/80	02/08/80	04/09/80
FORMATION.....	SILU-MEDINA	DEVO-ORISKANY	MISS-FRYBURG
GEOLOGIC PROVINCE CODE.....	160	150	395
DEPTH, FEET.....	940	2300	9600
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	1500
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	2200
COMPONENT, MOLE PCT			
METHANE.....	85.3	97.1	45.6
ETHANE.....	8.4	1.9	20.8
PROPANE.....	2.0	0.1	14.1
N-BUTANE.....	0.4	0.0	5.5
ISOBUTANE.....	0.3	0.0	2.4
N-PENTANE.....	0.1	0.0	1.1
ISOPENTANE.....	TRACE	0.0	2.1
CYCLOPENTANE.....	TRACE	0.0	0.2
HEXANES PLUS.....	0.1	0.0	0.6
NITROGEN.....	3.1	0.6	0.7
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	2.8
CARBON DIOXIDE.....	TRACE	TRACE	4.0
HELIUM.....	0.28	0.04	0.01
HEATING VALVE**.....	1099	1020	1660
SPECIFIC GRAVITY.....	0.643	0.568	1.058

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16062	INDEX SAMPLE 15971	INDEX SAMPLE 16143
STATE.....	NORTH DAKOTA	OKLAHOMA	OKLAHOMA
COUNTY.....	WICKENSIE	HECKHAM	BECKHAM
FIELD.....	CHARLSOBI	CARPENTER SW	CARPENTER W
WELL NAME.....	SILURIAN UNIT 5W0.1	FARRAR NO. 1-22	THURMOND NO. 1
LOCATION.....	SEC. 34, T154N, R95W	SEC. 22, T12N, R21W	SEC. 27, T12N, R27W
OWNER.....	TEXACO INC.	GHK CO.	GHK CO.
COMPLETION.....	NOT GIVEN	09/20/70	
SAMPLE.....	04/02/80	05/31/80	08/21/80
FORMATION.....	SILU-INTERLAK	PENN-MORROW	PENN-ATOKA
GEOLOGIC PROVINCE CODE.....	395	360	360
DEPTH, FEET.....	11408	17002	14806
WELLHEAD PRESSURE, PSIG.....	2500	12500	8660
OPEN FLOW, WCFD.....	2000	4439	12277
COMPONENT, MOLE PCT			
METHANE.....	75.4	97.3	95.2
ETHANE.....	4.3	0.6	2.1
PROPANE.....	4.3	0.1	0.4
N-BUTANE.....	1.7	0.0	0.1
ISOBUTANE.....	1.2	0.0	0.1
N-PENTANE.....	0.6	0.0	0.1
ISOPENTANE.....	0.5	0.0	TRACE
CYCLOPENTANE.....	0.1	0.0	TRACE
HEXANES PLUS.....	0.4	0.0	0.2
NITROGEN.....	3.0	0.3	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	3.8	0.0	0.0
CARBON DIOXIDE.....	0.6	1.6	1.3
HELIUM.....	0.05	0.02	0.02
HEATING VALUE*.....	1217	999	1034
SPECIFIC GRAVITY.....	0.757	0.575	0.591

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 91 15899	INDEX SAMPLE 92 15979	INDEX SAMPLE 93 15970
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	BECKHAM	BECKHAM	BECKHAM
FIELD.....	MAYFIELD NE	MAYFIELD W	NEW LIBERTY SW
WELL NAME.....	JOHN G BROWN NO. 1	MILLS NO. 2-19	D.L. SANDERS UNIT NO. 1
LOCATION.....	SEC. 4, T10N, R25W	SEC. 19, T10N, R26W	SEC. 24, T10N, R25W
OWNER.....	UNION OIL CO. OF CALIFORNIA	NATOMAS NORTH AMERICA, INC.	MISSISSIPPI RIVER TRANS. EXP
COMPLETE.....	12/17/77	02/25/80	02/20/79
SAMPLE.....	02/08/80	06/12/80	05/30/80
FOR MATION.....	PERM-ATOKA	DEV-O-HUNTON	DEV-O-HUNTON
GEOLGIC PROVINCE CODE.....	550	350	360
DEPTH, FEET.....	14975	17796	23920
CELLULAR PRESSURE, PSIG.....	5524	4423	3122
OPEN FLOW, MCFD.....	NOT GIVEN	5850	7779
COMPONENT, VOL% FC			
METHANE.....	99.7	96.4	97.5
ETHANE.....	4.4	1.0	0.1
PROPANE.....	1.5	0.1	TRACE
N-BUTANE.....	0.4	0.1	0.0
ISOBUTANE.....	0.2	0.0	0.0
N-PENTANE.....	0.1	TRACE	0.0
ISOPENTANE.....	0.1	0.1	0.0
CYCLOHEXANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	0.1	0.1	0.0
HEPTANES.....	1.4	0.9	2.3
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	1.2	TRACE
HEATING VALUE*.....	0.63	0.02	0.05
HEATING VALUE*.....	1067	1010	989
SPECIFIC GRAVITY.....	0.610	0.581	0.564

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16088	INDEX SAMPLE 15933	INDEX SAMPLE 15975
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	CADDO	CADDO	CANADIAN
FIELD.....	RINGER W	EAKLY	CANYON CITY SW
WELL NAME.....	WILLIAMS NO. 1	ALMA BARBEE NO. 1	MILLARD NO. 1
LOCATION.....	SEC. 33, T10N, R11W	SEC. 31, T10N, R12W	SEC. 30, T11N, R10W
OWNER.....	SARGUINE, LTD.	HELMRICH & PAYNE, INC.	COTTON PETROLEUM CO.
COMPLETED.....	08/-/80	04/25/79	NOT GIVEN
SAMPLED.....	10/09/80	03/26/80	06/-/80
FORMATION.....	PENN-RED FORK	PENN-RED FORK	PENN-RED FORK
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	13100	12456	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	8100	7625	NOT GIVEN
OPEN FLOW, MCFD.....	3500	17553	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	91.4	85.9	94.3
ETHANE.....	10.7	7.5	2.7
PROPANE.....	4.1	3.4	0.7
N-BUTANE.....	0.9	0.8	0.1
ISOBUTANE.....	0.8	0.6	0.1
N-PENTANE.....	0.2	0.2	0.1
ISOPENTANE.....	0.3	0.3	0.1
CYCLOPENTANE.....	9.1	0.1	0.1
HEXANES PLUS.....	0.2	0.2	0.2
NITROGEN.....	0.5	0.4	0.6
OXYGEN.....	TRACE	0.0	0.1
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.0	0.6	1.0
HELIUM.....	0.03	0.02	TRACE
HEATING VALUE.....	1215	1175	1051
SPECIFIC GRAVITY.....	9.704	0.671	0.602

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
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TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 97 15962	INDEX SAMPLE 98 15960	INDEX SAMPLE 99 15962
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	CANADIAN	CANADIAN	CANADIAN
FIELD.....	OKMORCHE	YUKON	YUKON
WELL NAME.....	EMEROFF "C" NO. 1	WHEATLEY NO. 1-15	WHEATLEY NO. 1-15
LOCATION.....	SEC. 23, T14N, R8W	SEC. 15, T12N, R5W	SEC. 15, T12N, R5W
OWNER.....	PHILLIPS PETROLEUM CO.	RALPH E. PLOTNER O&G	RALPH E. PLOTNER OIL & GAS
COMPLETE.....	NOT GIVEN	NOT GIVEN	11/27/79
SAMPLED.....	06/07/80	05/13/80	05/13/80
FORMATION.....	NOT GIVEN	PENN-OSWEGO	DEVO-HUNTON&MISS
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	NOT GIVEN	7426	7814
WELLHEAD PRESSURE, PSIG.....	2000	2188	1060
OPEN FLOW, MCF/D.....	NOT GIVEN	17155	850
COMPONENT, MOLF PCT			
METHANE.....	77.2	80.8	66.2
ETHANE.....	12.7	10.2	16.2
PROPANE.....	5.6	4.6	10.8
N-BUTANE.....	1.7	1.2	3.2
ISOBUTANE.....	0.6	0.5	1.2
N-PENTANE.....	0.4	0.3	0.6
ISOPEPTANE.....	0.3	0.2	0.6
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	1.0	1.6	0.6
OXYGEN.....	0.0	0.1	TRACE
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.4	0.4
HELIUM.....	0.03	0.05	0.02
HEATING VALUE*.....	1276	1204	1455
SPECIFIC GRAVITY.....	0.736	0.700	0.847

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16009	INDEX SAMPLE 15908	INDEX SAMPLE 16104
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	CUSTER	CUSTER	CUSTER
FIELD.....	CARPENTER C	THOMAS S	WEATHERFORD
WELL NAME.....	HUTSON NO. 1-15	C. B. MCNEILL NO. 4	BERGNER NO. 1
LOCATION.....	SEC. 15, T12N, R20W	SEC. 13, T14N, R14W	SEC. 21, T13N, R14W
OWNER.....	G&H CO.	SOUTHPORT EXPLORATION, INC.	KAISER-FRANCIS OIL CO.
COMPLETED.....	02/11/80	NOT GIVEN	08/26/80
SAMPLED.....	10/13/80	02/28/80	10/20/80
FORMATION.....	PENN-ATOKA	PENN-RED FORK	-BRITT
GEOLOGIC PROVINCE CONF.....	360	360	360
DEPTH, FEET.....	14803	10630	13504
WELLHEAD PRESSURE, PSIG.....	9170	NOT GIVEN	5900
OPEN FLOW, MCFD.....	7600	449	25396
COMPONENT, MOLF PCF			
METHANE.....	95.9	78.3	96.3
ETHANE.....	2.1	9.1	1.8
PROPANE.....	0.4	4.6	0.3
N-BUTANE.....	0.1	1.0	TRACE
ISOBUTANE.....	TRACE	0.6	0.1
N-PENTANE.....	TRACE	0.1	TRACE
ISOPENTANE.....	TRACE	0.4	0.0
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	TRACE
NITROGEN.....	0.5	4.3	0.3
OXYGEN.....	0.0	1.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	0.5	1.1
HELIUM.....	0.02	0.04	0.03
HEATING VALUE*.....	1028	1156	1019
SPECIFIC GRAVITY.....	0.584	0.710	0.579

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15904	INDEX SAMPLE 15944	INDEX SAMPLE 16016
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	ELLIS	ELLIS	GARFIELD
FIELD.....	HARWIN SE	WILLOCAT	GARBER NE
WELL NAME.....	ADRAW NO. 1	D. B. SHREWER NO. 1	RANCH NO. 2
LOCATION.....	SEC. 25, T19N, R22W	SEC. 36, T18N, R23W	SEC. 5, T23N, R3W
OWNER.....	MONSANTO CO.	TEXAS PACIFIC OIL CO., INC.	KETAL OIL PRODUCING CO.
COMPLETED.....	02/22/79	12/01/78	NOT GIVEN
SAMPLED.....	02/21/80	04/24/80	07/21/80
FORMATION.....	PENN-MORROW	PENN-ATOKA	PERM-HERRINGTON
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	11036	11070	980
WELLHEAD PRESSURE, PSIG.....	3000	5464	200
OPEN FLOW, MCFD.....	9354	3409	NOT GIVEN
COMPONENT, WOLF PCT			
METHANE.....	44.5	82.7	78.4
ETHANE.....	5.8	7.6	7.4
PROPANE.....	2.2	4.1	3.3
N-BUTANE.....	0.5	1.3	1.0
ISOBUTANE.....	0.5	0.9	0.5
N-PENTANE.....	0.1	2.3	0.3
ISOPENTANE.....	0.2	0.0	0.3
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.2	0.6	0.2
NITROGEN.....	0.6	0.0	8.2
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.1	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	0.4	0.2
HELIUM.....	0.04	0.03	0.18
HEATING VALUE*.....	1115	1287	1103
SPECIFIC GRAVITY.....	0.644	0.731	0.701

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16023	INDEX SAMPLE 15903	INDEX SAMPLE 15912
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	GRADY	GRADY	GRADY
FIELD.....	MINCO W	MINCO W	NAPLES SE
WELL NAME.....	BOUCHER NO. 1	EISENHOUR NO. 14	BARNETT NO. 1
LOCATION.....	SEC. 23, T13N, R14W	SEC. 12, T9N, R4W	SEC. 14, T6N, R5W
OWNER.....	PRIGG DRILLING CO.	LADG PETROLEUM CORP.	ARKLA EXPLORATION CO.
COMPLETION.....	501 STVEN	07/02/79	11/17/79
SAMPLE.....	07/31/80	02/15/80	03/04/80
FORMATION.....	PENIT-MORROW	PENN-TONKAWA	ORDO-SIMPSON
DEPTH, FEET.....	560	360	360
GEOLOGIC PROVINCE CODE.....	13177	7894	13192
DEPTH, FEET.....	5640	2350	3900
WELLHEAD PRESSURE, PSIG.....	1500	2500	2600
WELL FLOW, SCFD.....			
COMPONENT, MOLE PCT			
METHANE.....	95.9	89.4	85.1
ETHANE.....	2.3	3.2	7.3
PROPANE.....	0.5	1.6	3.2
n-BUTANE.....	0.1	0.4	0.9
ISOBUTANE.....	TRACE	0.2	0.4
n-PENTANE.....	TRACE	0.1	0.3
ISOPENTANE.....	TRACE	0.1	0.2
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	0.0	4.5	1.6
OXYGEN.....	0.0	TRACE	0.3
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	TRACE
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	0.1	0.4
HELIUM.....	0.04	0.13	0.03
HEATING VALUE.....	1028	1042	1155
SPECIFIC GRAVITY.....	0.581	0.622	0.671

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ASSUMPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15927	INDEX SAMPLE 16051	INDEX SAMPLE 16146
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	KINGFISHER	LATIMER	LEFLORE
FIELD.....	EDMOND W	PANOLA	CEDARS E
WELL NAME.....	H. MAKVINDA NO. 2	FOSTER NO. 1-35	FRAZIER UNIT NO. 1
LOCATION.....	SEC. 13, T15N, R5W	SEC. 35, T6N, R20E	SEC. 16, T9N, R26E
OWNER.....	UNION TEXAS PETROLEUM	MUSTANG PRODUCTION CO.	SAMSON RESOURCES CO.
COMPLETED.....	01/28/80	06/28/80	09/30/80
SAMPLED.....	03/27/80	08/22/80	12/11/80
FORMATION.....	PENN-SKINNER	PENN-SPIRO	PENN-SPIRO
GEOLOGIC PROVINCE CODE.....	360	345	345
DEPTH, FEET.....	6460	12630	7372
WELLHEAD PRESSURE, PSIG.....	1649	4200	NOT GIVEN
OPEN FLOW, MCFD.....	7288	4000	2200
COMPONENT, MOLE PCT			
METHANE.....	84.3	93.8	94.4
ETHANE.....	6.2	0.4	0.8
PROPANE.....	3.8	0.1	0.1
N-BUTANE.....	1.1	TRACE	0.0
ISOBUTANE.....	0.5	TRACE	0.0
N-PENTANE.....	0.2	TRACE	0.0
ISOPENTANE.....	0.4	0.0	0.0
CYCLOPENTANE.....	0.2	TRACE	0.0
HEXANES PLUS.....	0.3	0.1	0.0
NITROGEN.....	2.8	0.3	0.5
OXYGEN.....	0.0	0.0	0.1
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	5.2	4.1
HELIUM.....	0.06	0.04	0.10
HEATING VALUE.....	1166	965	973
SPECIFIC GRAVITY.....	0.642	0.611	0.602

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 50 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	MARSHALL	PITTSBURG	PITTSBURG	PITTSBURG
FIELD.....	POWELL S	BREWER S	BREWER S	BREWER S
WELL NAME.....	FEDERAL NO. 1	TURNER NO. 31-2	TURNER A NO.1	TURNER A NO.1
LOCATION.....	SEC. 11, T4S, R4E	SEC. 21, T4N, R14E	SEC. 32, T4N, R14E	SEC. 32, T4N, R14E
OWNER.....	AMERICAN QUASAR PET. CO.	SUPRON ENERGY CORP.	SUPRON ENERGY CORP.	TEXAS OIL & GAS CORP.
COMPLETION.....	12/09/79	NOT GIVEN	09/14/79	09/14/79
SAMPLED.....	09/03/80	01/11/80	05/02/80	05/02/80
FORMATION.....	ORION-OIL CREEK	PENN-ATOKA	PENN-ATOKA	PENN-ATOKA
GEOLOGIC PROVINCE CODE.....	350	345	345	345
DEPTH, FEET.....	16162	7360	6496	6496
WELLHEAD PRESSURE, PSIG.....	9800	2500	1800	1800
OPEN FLOW, MCF/D.....	4400	2000	2000	2000
COMPONENT, MOLE PCT				
METHANE.....	94.6	95.6	96.4	96.4
ETHANE.....	2.5	1.4	1.5	1.5
PROPANE.....	0.7	0.2	0.3	0.3
N-BUTANE.....	0.3	TRACE	TRACE	TRACE
ISOBUTANE.....	0.2	0.0	TRACE	TRACE
N-PENTANE.....	0.1	TRACE	TRACE	TRACE
ISOPENTANE.....	0.1	TRACE	TRACE	TRACE
CYCLOPENTANE.....	0.1	TRACE	TRACE	TRACE
HEXANE PLUS.....	0.2	TRACE	TRACE	TRACE
NITROGEN.....	0.9	1.1	0.5	0.5
OXYGEN.....	TRACE	0.2	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	1.4	1.2	1.2
HELIUM.....	0.02	0.03	0.04	0.04
HEATING VALUE.....	1041	999	1011	1011
SPECIFIC GRAVITY.....	0.599	0.582	0.578	0.578

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 115 15886	INDEX SAMPLE 116 16134	INDEX SAMPLE 117 15885
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	PITTSBURG	PITTSBURG	PITTSBURG
FIELD.....	KIOWA SW	KIOWA W	WILDCAT
WELL NAME.....	CHITTY SCOTT NO. 1	HALL "D" 1	CHITTY SCOTT NO. 1
LOCATION.....	SEC. 30, T3N, R14E	SEC. 19, T3N, R13E	SEC. 30, T3N, R14E
OWNER.....	HAMILTON BROTHERS OIL CO.	CITIES SERVICE CO.	HAMILTON BROTHERS OIL CO.
COMPLETED.....	NOT GIVEN	05/06/80	NOT GIVEN
SAMPLED.....	01/15/80	11/19/80	01/15/80
FORMATION.....	PENN-CROMWELL	PENN-ATOKA	PENN-WAPANUCKA
GEOLOGIC PROVINCE CODE.....	345	345	345
DEPTH, FEET.....	10279	7052	9381
WELLHEAD PRESSURE, PSIG.....	675	2015	1300
OPEN FLOW, MCFD.....	2200	NOT GIVEN	470000
COMPONENT, MOLE PCT			
METHANE.....	96.1	89.1	95.9
ETHANE.....	0.4	6.4	1.1
PROPANE.....	0.1	2.0	0.1
N-BUTANE.....	0.0	0.4	0.0
ISOBUTANE.....	0.0	0.3	0.0
N-PENTANE.....	0.0	0.1	0.0
ISOPENTANE.....	0.0	0.1	0.0
CYCLOPENTANE.....	0.0	0.1	0.0
HEXANES PLUS.....	0.0	0.1	0.0
NITROGEN.....	9.5	0.5	0.5
OXYGEN.....	TRACE	0.0	TRACE
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.4	0.9	2.3
HELIUM.....	0.03	0.04	0.04
HEATING VALUE*.....	990	1110	994
SPECIFIC GRAVITY.....	0.584	0.636	0.585

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 1572	INDEX SAMPLE 16124	INDEX SAMPLE 16127
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	ROGER MILLS	ROGER MILLS	ROGER MILLS
FIELD.....	CHEYENNE S	CHEYENNE W	LEEDY SW
WELL NAME.....	GRANT-1-20	STATE NO. 1-2A	TAYLOR FARMS NO. 2
LOCATION.....	SEC. 20, T12N, R24W	SEC. 28, T13N, R24W	SEC. 25, T16N, R22W
OWNER.....	AWAREX, INC	LADD PETROLEUM CORP.	SUNMARK EXPLORATION
COMPLETE.....	01/01/80	09/24/80	04/02/80
SAMPLE.....	06/04/80	10/28/80	11/06/80
FORMATION.....	PENN-MONKOW	PENN-MONKOW	PENN-RED FORK
GEOLOGIC PROVINCE (COUNTRY).....	360	360	360
DEPTH, FEET.....	17200	15660	11140
WELLHEAD PRESSURE, PSIG.....	11870	4900	4800
WELL FLOW, SCF.....	12590	5200	9825
COMPONENT, VOLUME PER CENT.....			
METHANE.....	47.5	97.5	84.7
ETHANE.....	0.5	0.5	8.1
PROPANE.....	TRACE	0.1	3.6
N-BUTANE.....	0.0	0.0	0.8
ISOBUTANE.....	0.0	0.0	0.6
N-PENTANE.....	0.0	0.0	0.2
ISOPENTANE.....	0.0	0.0	0.4
CYCLOHEXANE.....	0.0	0.0	0.1
HEXANES PLUS.....	0.0	0.0	0.3
NITROGEN.....	0.3	0.2	0.5
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.7	1.8	0.7
WATER.....	0.02	0.02	0.02
HEATING VALUE.....	997	997	1188
SPECIFIC GRAVITY.....	0.575	0.576	0.681

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 50 INCHES OF MERCURY  
 \*\* DUE TO THE ASSUMPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980.

	INDEX SAMPLE 121 16093	INDEX SAMPLE 122 15876	INDEX SAMPLE 123 15959
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	WASHINGTON	WOODS	WOODS
FIELD.....	HOGSHOOTER	EDITH S	NOT GIVEN
WELL NAME.....	REYNOLDS NO. 1	DEVINE NO. 1	PARKER NO. 1-24
LOCATION.....	SEC. 20, T25N, R14E	SEC. 34, T27N, R18W	SEC. 24, T29N, R19W
OWNER.....	ECC OIL CO.	TEXAS OIL & GAS	BOSWELL ENERGY CORP.
COMPLETED.....	08/17/78	NOT GIVEN	03/14/80
SAMPLED.....	10/08/80	01/15/80	05/08/80
FORMATION.....	PENN-SKINNER	NOT GIVEN	MISS-
GEOLOGIC PROVINCE CODE.....	355	360	360
DEPTH, FEET.....	780	NOT GIVEN	5709
WELLHEAD PRESSURE, PSIG.....	625	NOT GIVEN	1820
OPEN FLOW, MCFD.....	2000	NOT GIVEN	1000
COMPONENT, MOLE PCT			
METHANE.....	86.3	93.7	91.5
ETHANE.....	2.3	3.2	3.6
PROPANE.....	2.6	1.1	1.3
N-BUTANE.....	0.9	0.3	0.4
ISOBUTANE.....	0.6	0.2	0.2
N-PENTANE.....	0.2	0.1	0.1
ISOPENTANE.....	0.1	0.1	0.1
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.3	0.1	0.2
NITROGEN.....	6.0	0.8	2.1
OXYGEN.....	0.2	0.1	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.1	0.2
HELIUM.....	0.07	0.05	0.10
HEATING VALUE**.....	1070	1066	1068
SPECIFIC GRAVITY.....	0.659	0.599	0.615

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 50 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 124	INDEX SAMPLE 125	INDEX SAMPLE 126
STATE.....	OKLAHOMA	OKLAHOMA	PENNSYLVANIA
COUNTY.....	WOODWARD	WOODWARD	GREENE
FIELD.....	WICHITA NW	WOODWARD N	FORUYCE
WELL NAME.....	WYMAN "A" NO. 1-33	PHILLIPS DUNCAN NO. 1	HEADLEY NO. 5453
LOCATION.....	SEC. 33, T21N, R14W	SEC. 29, T23N, R21W	SEC. F, GARADS FORT QUAD.
OWNER.....	AVADARKO PRODUCTION CO.	HILLIARD OIL & GAS CO.	PEOPLES NATURAL GAS CO.
COMPLETED.....	08/21/80	12/12/75	02/05/80
SAMPLE.....	12/11/80	06/18/80	06/25/80
FORMATION.....	PERM-MORROW & MISS-CHESTER	DEVON-HUNTON	MISS-BIG INJUN
GEOLOGIC PROVINCE CODE.....	360	360	475
DEPTH, FEET.....	8242	10336	1590
WELLHEAD PRESSURE, PSIG.....	2905	3055	NOT GIVEN
OPEN FLOW, ACFD.....	29643	2067	7500
COMPONENT, MOLE PCT			
METHANE.....	84.5	92.8	88.5
ETHANE.....	2.7	2.7	6.3
PROPANE.....	1.6	0.8	2.2
N-BUTANE.....	0.7	0.3	0.5
ISOBUTANE.....	0.9	0.2	0.4
N-PEUTANE.....	0.8	0.1	0.2
ISOPENTANE.....	1.2	0.1	0.1
CYCLOPENTANE.....	0.3	TRACE	TRACE
HEXANES PLUS.....	1.3	0.2	0.2
NITROGEN.....	1.3	2.3	1.4
OXYGEN.....	0.2	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.2
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.5	0.0
HELIUM.....	0.07	0.08	0.11
HEATING VALUE*.....	1203	1045	1120
SPECIFIC GRAVITY.....	0.694	0.607	0.637

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX 127 SAMPLE 16063	INDEX 128 SAMPLE 16056	INDEX 129 SAMPLE 16101
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	ANGELINA	BEE	BRAZORIA
FIELD.....	WILDCAT	YOWARD	PEACH POINT
WELL NAME.....	TUCKER NO. 1	YOWARD NO. 2	AUSTIN COLLEGE NO. 2
LOCATION.....	SARAH ODELL SUR. A-494	3 MI. S.W. MINERAL	STEVEN F. AUSTIN SUR. A-27
OWNER.....	HNG OIL CO.	TEXAS OIL & GAS CORP.	MONSANTO CO.
COMPLETED.....	NOT GIVEN	06/05/80	08/--/78
SAMPLED.....	09/08/80	08/20/80	10/15/80
FORMATION.....	CRET-JAMES	Eocene	OLIG-FRIO
GEOLOGIC PROVINCE CODE.....	260	220	220
DEPTH, FEET.....	9836	8236	11216
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	1950	5255
OPEN FLOW, MCFD.....	2858	1050	5730
COMPONENT, MOLE PCT			
METHANE.....	93.9	87.6	93.8
ETHANE.....	1.8	5.9	3.4
PROPANE.....	0.9	2.5	0.9
N-BUTANE.....	0.4	0.7	0.2
ISOBUTANE.....	0.3	0.5	0.2
N-PENTANE.....	0.2	0.2	0.1
ISOPENTANE.....	0.1	0.3	0.1
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.3	0.2	0.2
NITROGEN.....	0.3	TRACE	0.2
OXYGEN.....	TRACE	0.0	TRACE
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.7	2.0	0.9
HELIUM.....	0.02	TRACE	TRACE
HEATING VALUE.....	1062	1134	1070
SPECIFIC GRAVITY.....	0.516	0.663	0.607

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15937	INDEX SAMPLE 15986	INDEX SAMPLE 16099
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	BROOKS	BROOKS	BROOKS
FIELD.....	RUCIAS M	RUCIAS M	RUCIAS M
WELL NAME.....	CARTER RANCH NO. 1	BARBARA LIPS "C" NO. 1	BARBARA LIPS "C" NO. 1
LOCATION.....	LA RUCIO OF., A-481	9 MI. SW RACHAL	VARGAS GRANT, A-192
OWNER.....	MCCORMICK GAS CORP.	HILLIARD OIL & GAS, INC.	HILLIARD OIL & GAS, INC.
COMPLETED.....	02/21/80	10/16/79	10/16/79
SAMPLED.....	02/17/80	06/18/80	10/14/80
FORMATION.....	TEPT-VICKSBURG	OLIG-VICKSBURG	OLIG-VICKSBURG
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	10314	10470	10470
WELLHEAD PRESSURE, PSIG.....	7646	8360	8500
OPEN FLOW, MCF/D.....	18000	43000	3000
COMPONENT, MOLE PCT			
METHANE.....	85.4	71.8	67.8
ETHANE.....	7.8	9.0	10.2
PROPANE.....	3.4	6.7	7.9
N-BUTANE.....	0.7	3.2	3.6
ISOBUTANE.....	0.9	3.2	3.7
N-PENTANE.....	0.2	1.3	1.5
ISOPENTANE.....	0.3	1.9	2.0
CYCLOPENTANE.....	TRACE	0.2	0.3
HEXANES PLUS.....	0.2	1.5	1.9
NITROGEN.....	0.3	0.1	0.0
OXYGEN.....	TRACE	TRACE	0.1
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	1.2	1.2
HELIUM.....	0.01	TRACE	TRACE
HEATING VALUE.....	1179	1499	1579
SPECIFIC GRAVITY.....	0.675	0.878	0.928

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

STATE.....	INDEX 133 SAMPLE 16085	INDEX 134 SAMPLE 15946	INDEX 135 SAMPLE 15954
TEXAS.....	TEXAS	TEXAS	TEXAS
CASS.....	FORT BEND	FORT BEND	FORT BEND
KILLBUCK.....	PECAN GROVE	PECAN GROVE	PECAN GROVE
WELL NAME.....	6. H. JOHNSON NO. 1	PECAN GROVE GAS UNIT NO. 1	PECAN GROVE GAS UNIT NO. 1
LOCATION.....	JOHN M. WATSON SUR. A-1075	RANDALL JONES SUR. A-42	RANDALL JONES SUR. A-42
OWNER.....	WILLIARD OIL & GAS, INC.	EXXON CO., U.S.A.	EXXON CO., U.S.A.
COMPLETED.....	90T GIVEN	09/05/79	09/05/79
SAMPLED.....	10/01/80	04/22/80	04/22/80
FORMATION.....	JURA-SPACKOVER	EOCE-COOK MOUNTAIN	EOCE-COOK MOUNTAIN
GEOLOGIC FORMATION CODE.....	260	220	220
WELLHEAD PRESSURE (PSIG).....	10641	8686	8686
WELLHEAD PRESSURE (PSIG).....	5200	5442	5442
OPEN FLOW (CFD).....	2592	4998	4998
COMPONENT, VOL PCT.....			
METHANE.....	64.8	90.5	85.6
ETHANE.....	4.1	5.2	4.9
PROPANE.....	1.9	1.8	1.8
N-BUTANE.....	0.8	0.4	0.5
ISOBUTANE.....	1.0	0.4	0.4
N-PENTANE.....	0.6	0.1	0.1
ISOPENTANE.....	0.0	0.3	0.3
CYCLOHEXANE.....	0.1	0.1	0.2
HEXANES, FLUS.....	0.9	0.3	0.3
NITROGEN.....	24.7	0.5	4.5
OXYGEN.....	3.1	TRACE	1.1
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	0.4	0.3
HELIUM.....	0.05	TRACE	0.01
HEATING VALUE.....	515	1120	1072
SPECIFIC GRAVITY.....	0.767	0.653	0.657

\* CALCULATED GROSS FLOW PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ASSUMPTION OF P25 DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16126	INDEX SAMPLE 15973	INDEX SAMPLE 15994
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	FORT BEND	FREESTONE	FREESTONE
FIELD.....	PECAN GROVE	NEAL SMACKOVER	NEAL SMACKOVER
WELL NAME.....	PECAN GROVE GAS UNIT NO. 1	GLAYDENE NEAL NO. 1	GLAYDENE NEAL NO. 1
LOCATION.....	KANDALL JONES SUR. A-42	JOHN BRADLEY SUR., A-53	JOHN BRADLEY SUR., A-53
OWNER.....	FXCON CO., U.S.A.	GETTY OIL CO.	GETTY OIL CO.
COMPLETION.....	11/08/79	03/14/79	03/14/79
SAMPLED.....	10/29/80	06/02/80	07/02/80
FORMATION.....	EOCF-COOK MOUNTAIN	JURA-SMACKOVER	JURA-SMACKOVER
GEOLOGIC PROVINCE CODE.....	220	260	260
DEPTH, FEET.....	8567	11599	11599
WELLHEAD PRESSURE, PSIG.....	5457	3826	3826
OPEN FLOW, FCPU.....	4498	13600	13600
COMPONENT, MOLF PCT			
METHANE.....	88.3	49.7	38.4
ETHANE.....	5.6	6.0	7.0
PROPANE.....	2.3	3.2	2.7
N-BUTANE.....	1.0	1.2	1.0
ISOBUTANE.....	0.7	1.2	0.9
N-PENTANE.....	0.3	0.3	0.2
ISOPENTANE.....	0.7	0.5	0.4
CYCLOPENTANE.....	0.2	TRACE	TRACE
HEXANES PLUS.....	0.4	0.2	0.1
NITROGEN.....	0.3	1.7	0.4
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.1
HYDROGEN SULFIDE**.....	0.0	28.9	44.4
CARBON DIOXIDE.....	0.3	5.0	4.3
HELIUM.....	0.01	0.01	0.01
HEATING VALUE.....	1143	1040	964
SPECIFIC GRAVITY.....	0.668	0.922	0.984

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

		INDEX 139 SAMPLE 16077	INDEX 140 SAMPLE 16060	INDEX 141 SAMPLE 16086
STATE.....	TEXAS			
COUNTY.....	GRAY			
FIELD.....	WILFORD			
WELL NAME.....	W.D. STOCKSTILL NO. 1			
LOCATION.....	SEC. 1AS, BLK. #2, H&F SUR.			
OWNER.....	HUNT ENERGY CORP.			
COMPLETION.....	05/06/80			
SAMPLED.....	09/04/80			
FORMATION.....	-STRAY SAND			
GEOLOGIC PROVINCE CONF.....	440			
DEPTH, FEET.....	9740			
WELLHEAD PRESSURE, PSIG.....	3473			
OPEN FLOW, LCFD.....	4650			
COMPONENT, MOLF PC				
METHANE.....	91.2			
ETHANE.....	3.5			
PROPANE.....	1.5			
N-BUTANE.....	0.5			
ISOBUTANE.....	0.1			
N-PENTANE.....	0.2			
ISOPENTANE.....	0.2			
CYCLOPENTANE.....	0.1			
HEXANES PLUS.....	0.2			
NITROGEN.....	2.5			
OXYGEN.....	TRACE			
ARGON.....	TRACE			
HYDROGEN.....	0.0			
HYDROGEN SULFIDE**.....	0.0			
CARBON DIOXIDE.....	0.2			
HELIUM.....	0.05			
HEATING VALUE.....	1077			
SPECIFIC GRAVITY.....	0.622			
		TEXAS	TEXAS	TEXAS
		GRAYSON	MINERAL CREEK W	HARDIN
			PETRO LEWIS-KUSCH GU NO. 1	BRADLEY S
			1/2MI. W OF POTTSBORO	AR8S BRADLEY FEE NO. 1
			AMERICAN QUASAR PET. CO.	1.05 MI. NE OF SETH
			03/24/80	JAKE L. HAMON
			09/04/80	11/12/79
			PENNY-DORNICK HILLS	09/29/80
			350	EOCE-YEGUA
			12198	220
			5813	7773
			28500	2700
				2754
			84.1	84.5
			9.2	4.3
			3.4	2.3
			0.9	0.6
			0.3	0.7
			0.2	0.2
			0.2	0.3
			TRACE	0.1
			0.1	0.4
			0.8	6.2
			0.0	0.0
			TRACE	0.0
			0.0	0.0
			0.7	0.3
			0.02	0.02
			1168	1082
			0.672	0.668

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16144	INDEX SAMPLE 15941	INDEX SAMPLE 15942
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HEMPHILL	HEMPHILL	HEMPHILL
FIELD.....	ALLISON PARK	ALPAR	ALPAR
WELL NAME.....	L. L. JONES 14 LEASE NO. 1	FEE 1-111	FEE 1-111
LOCATION.....	SEC. 14, BLK. 21, ACH888H&W	SEC. 111, BLK. 41, H&TC SUR.	SEC. 111, BLK. 41, H&TC SUR.
OWNER.....	KERR-MCGEE CORP.	SHELL OIL CO.	SHELL OIL CO.
COMPLETED.....	03/31/80	04/01/79	04/01/79
SAMPLED.....	12/10/80	04/23/80	04/23/80
FORMATION.....	PENN-MORROW	PENN-DOUGLAS	PENN-TONKAWA
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	14918	7300	8000
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	9500	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	96.9	83.1	81.4
ETHANE.....	0.6	7.9	7.5
PROPANE.....	0.1	4.2	5.0
N-BUTANE.....	TRACE	1.1	1.5
ISOBUTANE.....	TRACE	0.6	0.7
N-PENTANE.....	TRACE	0.2	0.3
ISOPENTANE.....	0.0	0.3	0.4
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	0.3	2.1	2.4
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.0	0.3	0.4
HELIUM.....	0.02	0.14	0.09
HEATING VALUE*.....	1000	1180	1207
SPECIFIC GRAVITY.....	0.532	0.687	0.709

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15926	INDEX SAMPLE 16018	INDEX SAMPLE 16090
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HEMPHILL	HEMPHILL	HIDALGO
FIELD.....	BRISCOE	CAMPBELL RANCH	MCALLEN RANCH
WELL NAME.....	S. G. SMITH NO. 1	CAMPBELL NO. 1-14	A. W. BEAULINE NO. 3
LOCATION.....	SEC. 38, BLK. M1, H&GN SUR.	SEC. 14, BLK I, I&GN SUR.	SANTA ANITA GRANT A-63
OWNER.....	UNION OIL CO. OF CALIFORNIA	HOOVER & BRACKEN ENERGIES	SUN GAS CO.
COMPLETED.....	08/24/79	NOT GIVEN	NOT GIVEN
SAMPLED.....	03/25/80	07/25/80	10/13/80
FORMATION.....	PENN-MORROW	PERM-GRANITE WASH	OLIG-VICKSBURG
GEOLOGIC PROVINCE CODE.....	360	360	220
DEPTH, FEET.....	14438	9734	13125
WELLHEAD PRESSURE, PSIG.....	6303	2425	NOT GIVEN
OPEN FLOW, MCFD.....	16500	1042	7000
COMPONENT, MOL% PCT			
METHANE.....	95.6	88.8	92.0
ETHANE.....	1.4	6.3	5.0
PROPANE.....	0.2	2.2	1.2
N-BUTANE.....	0.1	0.5	0.3
ISOBUTANE.....	0.1	0.4	0.3
N-PENTANE.....	TRACE	0.2	0.1
ISOPENTANE.....	0.1	0.2	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.2	0.2
NITROGEN.....	0.5	0.4	0.6
OXYGEN.....	0.0	TRACE	0.1
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.8	0.7	0.1
HELIUM.....	0.02	0.03	TRACE
HEATING VALUE.....	1015	1127	1100
SPECIFIC GRAVITY.....	0.590	0.642	0.618

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15985	INDEX SAMPLE 149 15998	INDEX SAMPLE 150 16025
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HIDALGO	HUTCHINSON	JACKSON
FIELD.....	WILLCAT	LIPS 4	APPLING
WELL NAME.....	HARRARA LIPS NO. 1	PATTERSON GAS UNIT NO. 2	FLOYD APPLING NO. 1
LOCATION.....	15 MI. S. RACHAL	SEC. 73, BLK. RGB&CNG SUR.	JOHN R. WICKHAM SUR. A-274
OWNER.....	HILLIARD OIL & GAS, INC.	SUN OIL CO.	DAVIS OIL CO.
COMPLETED.....	05/16/78	12/21/79	06/--/78
SAMPLED.....	06/18/80	07/05/80	08/01/80
FORMATION.....	OLIG-VICKSHUNG	PENN-CLEVELAND	OLIG-FRIO
GEOLOGIC PROVINCE CODE.....	220	440	220
DEPTH, FEET.....	15163	6560	9332
WELLHEAD PRESSURE, PSIG.....	12400	1532	1800
OPEN FLOW, MCFD.....	10500	8500	2060
COMPONENT, MOLE PCT			
METHANE.....	89.4	82.7	82.4
ETHANE.....	2.9	7.9	4.4
PROPANE.....	1.4	4.3	1.9
N-BUTANE.....	0.7	1.3	0.5
ISOBUTANE.....	1.2	0.4	1.0
N-PENTANE.....	0.6	0.3	0.2
ISOPENTANE.....	0.4	0.3	0.3
CYCLOPENTANE.....	0.2	0.1	0.1
HEXANES PLUS.....	1.4	0.1	0.3
NITROGEN.....	0.1	2.4	6.5
OXYGEN.....	TRACE	0.0	1.6
ARGON.....	0.0	0.0	0.1
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	0.2	0.8
HELIUM.....	TRACE	0.13	0.01
HEATING VALUE.....	11.4	11.83	10.54
SPECIFIC GRAVITY.....	0.660	0.690	0.682

\* CALCULATED, GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 151 15932	INDEX SAMPLE 152 15916	INDEX SAMPLE 153 16137
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	LIPSCOMB	LIPSCOMB	LIPSCOMB
FIELD.....	BRADFORD	CAMBRIDGE	KIOWA CREEK N
WELL NAME.....	FRED LOESCH NO. 2	MERYDITH NO. 1	PARKER "F" NO. 1
LOCATION.....	SEC. 945, BLK. 43, H&TC SUR.	SEC. 499, BL43, H&TC SUR.	SEC. 1031, BLK. 43, H&TC SUR
OWNER.....	ARCO OIL & GAS CO.	MAY PETROLEUM, INC.	TEXAS OIL & GAS CORP.
COMPLETED.....	11/26/79	NOT GIVEN	08/20/80
SAMPLED.....	04/09/80	03/09/80	12/04/80
FORMATION.....	PENN-CLEVELAND	PENN-ATOKA&NOVA	PENN-MORROW
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	7334	8700	8654
WELLHEAD PRESSURE, PSIG.....	1885	NOT GIVEN	2900
OPEN FLOW, MCFD.....	11500	9500	38000
COMPONENT, MOLE PCT			
METHANE.....	86.1	86.5	84.4
ETHANE.....	5.8	9.0	7.4
PROPANE.....	3.8	2.6	3.5
N-BUTANE.....	1.2	0.6	0.8
ISOBUTANE.....	0.4	0.2	0.3
N-PENTANE.....	0.3	0.2	0.2
ISOPENTANE.....	0.4	0.1	0.2
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	1.3	0.1	1.8
OXYGEN.....	TRACE	0.0	0.4
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.4	0.6
HELIUM.....	0.12	0.07	0.07
HEATING VALUE*.....	1173	1150	1147
SPECIFIC GRAVITY.....	0.674	0.649	0.672

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 154 16142	INDEX SAMPLE 155 16148	INDEX SAMPLE 156 16032
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	LIPSCOMB	LIPSCOMB	LIVE OAK
FIELD.....	LIPSCOMB Sp	MAY	LIMES
WELL NAME.....	OWEN NO. 1-544	TERRELL NO. 1	C. S. NELSON TRUST NO. 1
LOCATION.....	SEC. 544, BLK. 43, H&TC SUR.	SEC. 1125, BLK. 43, H&TC SUR.	CAMERON CO. SCHOOL LAND
OWNER.....	NATURAL GAS ANADARKO, INC.	UNIVERSAL RESOURCES CORP.	PEND OREILLE OIL & GAS CO.
COMPLETED.....	03/25/80	09/15/80	NOT GIVEN
SAMPLED.....	12/05/80	12/15/80	07/31/80
FORMATION.....	PENN-ATOKA	PENN-MORROW	EOCE-WILCOX
GEOLOGIC PROVINCE CONF.....	360	360	220
DEPTH, FEET.....	9211	9228	7882
WELLHEAD PRESSURE, PSIG.....	2791	3223	2249
OPEN FLOW, MCFD.....	5900	4300	5000
COMPONENT, MOLE PC1			
METHANE.....	87.7	93.5	86.2
ETHANE.....	7.9	2.4	6.2
PROPANE.....	2.1	0.6	3.1
N-BUTANE.....	0.5	0.1	0.9
ISOBUTANE.....	0.2	0.1	0.6
N-PENTANE.....	0.1	TRACE	0.1
ISOPENTANE.....	0.1	0.1	0.5
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.1	0.1	0.3
NITROGEN.....	0.6	1.5	0.3
OXYGEN.....	0.0	0.2	TRACE
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	1.1	1.7
HELIUM.....	0.05	0.04	0.01
HEATING VALUE*.....	1125	1026	1157
SPECIFIC GRAVITY.....	0.640	0.598	0.675

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 157 16079	INDEX SAMPLE 158 15887	INDEX SAMPLE 159 15888
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	LOVING	MATAGORDA	MATAGORDA
FIELD.....	WLOCAT	DUNCAN SLOUGH S	DUNCAN SLOUGH S
WELL NAME.....	RED BLUFF DEEP NO. 1	GULF COAST WATER NO. 1	GULF COAST WATER NO. 1
LOCATION.....	SEC. 7, BLK. 56, T-1-T&P SUR.	MONTEZ & DURAN SUR. 11	MONTEZ & DURAN SUR. 11
OWNER.....	H. L. BROWN, JR.	DANIEL OIL CO.	DANIEL OIL CO.
COMPLETED.....	03/-/-780	NOT GIVEN	NOT GIVEN
SAMPLED.....	09/25/80	01/29/80	01/29/80
FORMATION.....	PERM-WICHITA-ALBANY	OLIG-FRIO F-6 UPPER	OLIG-FRIO LOWER
GEOLOGIC PROVINCE CODE...	430	220	220
DEPTH, FEET.....	11971	10719	11092
WELLHEAD PRESSURE, PSIG...	7963	6000	4000
OPEN FLOW, MCFD.....	10500	58000	8000
COMPONENT, MOLE PCT			
METHANE.....	86.3	91.7	89.3
ETHANE.....	8.5	4.5	5.5
PROPANE.....	2.6	1.5	2.1
N-BUTANE.....	0.8	0.4	0.5
ISOBUTANE.....	0.5	0.4	0.6
N-PENTANE.....	0.2	0.2	0.2
ISOPENTANE.....	0.2	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	0.5	0.3	0.3
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.9	1.0
HELIUM.....	0.01	TRACE	TRACE
HEATING VALUE*.....	1165	1093	1126
SPECIFIC GRAVITY.....	0.659	0.623	0.645

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960

	INDEX SAMPLE 15882	INDEX SAMPLE 16017	INDEX SAMPLE 15987
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	MC MULLEN	MITCHELL	NUECES
FIELD.....	TILDEN E	TURNER-GREGORY	CHAPMAN RANCH
WELL NAME.....	L. H. MCLAUGHERTY NO. 1	ADAMS NO. 2	CHAPMAN J NO. 1
LOCATION.....	US&F SUR. 13, A-517	SEC. 24, BLK. 29T-LN-T&P SUR.	SEC. 82, LAURELES FARM TRACT
OWNER.....	SHELL OIL CO.	ELLIPEN, INC.	MORGAN ENTERPRISES, INC.
COMPLETFU.....	11/12/77	NOT GIVEN	01/10/80
SAMPLED.....	01/21/80	07/22/80	06/20/80
FORMATION.....	CRET-EDWARDS	PERM-CLEARFORK	OLIG-FRIO
GEOLOGIC PROVINCE CODE...	220	430	220
DEPTH, FEET.....	11692	1350	13668
WELLHEAD PRESSURE, PSIG...	4240	750	9025
OPEN FLOW, MCFD.....	14000	NOT GIVEN	3200
COMPONENT, MOLE PCT			
METHANE.....	91.4	TRACE	84.8
ETHANE.....	1.2	0.0	7.1
PROPANE.....	0.3	TRACE	3.2
N-BUTANE.....	0.1	0.0	0.8
ISOBUTANE.....	0.1	0.0	1.1
N-PENTANE.....	TRACE	0.0	0.2
ISOPENTANE.....	TRACE	0.0	0.3
CYCLOPENTANE.....	TRACE	0.0	0.1
HEXANES PLUS.....	0.1	0.0	0.5
NITROGEN.....	0.2	99.7	0.2
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	0.1	0.0
HYDROGEN.....	0.0	0.1	0.0
HYDROGEN SULFIDE**.....	TRACE	0.0	0.0
CARBON DIOXIDE.....	6.6	0.0	1.6
HELIUM.....	TRACE	0.10	TRACE
HEATING VALUE*.....	967	0	1184
SPECIFIC GRAVITY.....	0.634	0.966	0.690

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15919	INDEX SAMPLE 16094	INDEX SAMPLE 16095
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	NUECES	NUECES	NUECES
FIELD.....	COTTON	RED FISH BAY N	RED FISH BAY N
WELL NAME.....	THOMAS L. BUSENLEHNER NO. 1	STATE TRACT 351 NO. 2	STATE TRACT 342 NO. 2
LOCATION.....	G. FARIAS GRANT, A-592	S.T.351, CORPUS CHRISTI BAY	3 MI. E OF ENGLSIDE
OWNER.....	HUGHES & HUGHES	WCMORAN EXPLORATION CO.	WCMORAN EXPLORATION CO.
COMPLETED.....	08/07/79	02/99/79	11/99/79
SAMPLED.....	03/13/80	10/13/80	10/13/80
FORMATION.....	OLIG-VICKSBURG	OLIG-FRIO	OLIG-FRIO D-1
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	8518	7858	9550
WELLHEAD PRESSURE, PSIG.....	3411	450	2800
OPEN FLOW, MCFD.....	31000	3289	4604
COMPONENT, MOLE PCT			
METHANE.....	91.4	91.8	91.1
ETHANE.....	4.9	3.8	3.7
PROPANE.....	1.8	1.5	1.5
N-BUTANE.....	0.5	0.4	0.4
ISOBUTANE.....	0.4	0.6	0.6
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.2	0.3	0.3
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.3	0.2
NITROGEN.....	0.1	0.5	1.1
OXYGEN.....	0.0	TRACE	0.2
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.6	0.6
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE**.....	1118	1107	1093
SPECIFIC GRAVITY.....	0.628	0.628	0.628

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15952	INDEX SAMPLE 167 16058	INDEX SAMPLE 168 15951
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	OCHILTREE	OCHILTREE	OCHILTREE
FIELD.....	DUDE WILSON	ELLIS RANCH	HANNA LAKE
WELL NAME.....	FIRST NATIONAL TRUST NO. 1	ODC "A" NO. 2	RAY NO. 1
LOCATION.....	SEC. 571, BLK. 43, H3TC SUR.	SEC. 760, BLK. 43, H3TC SUR.	SEC. 43, BLK. 10, H3TB SUR.
OWNER.....	COURSON OIL & GAS INC.	DIAMOND SHAMROCK CORP.	COURSON OIL & GAS INC.
COMPLETD.....	07/30/79	07/28/80	06/11/79
FORMATION.....	04/28/80	09/04/80	04/18/80
GEOLOGIC PROVINCE CODE.....	PENN-CLEVELAND	PENN-CLEVELAND	PENN-MORROW
DEPTH, FEET.....	360 6955	360 7098	360 8068
WELLHEAD PRESSURE, PSIG...	1604	1530	1748
OPEN FLOW, MCFD.....	4000	6100	2570
COMPONENT, MOLE PCT			
METHANE.....	83.2	88.4	81.1
ETHANE.....	6.3	6.1	7.2
PROPANE.....	4.6	2.5	5.7
N-BUTANE.....	1.4	0.8	1.7
ISOBUTANE.....	0.5	0.3	0.7
N-PENTANE.....	0.3	0.2	0.3
ISOPENTANE.....	0.4	0.2	0.6
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.2	0.3
NITROGEN.....	2.5	0.8	1.8
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.4	0.3
HELIUM.....	0.15	0.07	0.14
HEATING VALUE*.....	1183	1138	1237
SPECIFIC GRAVITY.....	0.692	0.648	0.720

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16136	INDEX SAMPLE 15953	INDEX SAMPLE 171 15875
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	OCHILTREE	OCHILTREE	OLDHAM
FIELD.....	HARRIS	MARSH	LAMBERT
WELL NAME.....	HARRIS "G" NO.1	POWERS NO. 1	JAY TAYLOR NO. A-1
LOCATION.....	SEC. 1175, BLK. 43, H&TC SUR	SEC. 496, BLK. 43, H&TC SUR.	SEC. 82, BLK. GMS, LEE SUR.
OWNER.....	TEXAS OIL & GAS CORP.	NATURAL GAS ANADARKO, INC.	BAKER & TAYLOR DRILLING CO.
COMPLETED.....	08/21/80	06/25/79	01/11/79
SAMPLED.....	12/04/80	04/28/80	11/09/79
FORMATION.....	PENN-MORROW	PENN-DOUGLAS	PERM-GRANITE WASH
GEOLOGIC PROVINCE CODE...	360	360	435
DEPTH, FEET.....	9319	5802	6776
WELLHEAD PRESSURE, PSIG...	2000	1585	120
OPEN FLOW, MCFD.....	7000	3250	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	79.2	77.6	33.6
ETHANE.....	9.8	6.1	10.6
PROPANE.....	5.9	4.8	14.8
N-BUTANE.....	1.5	1.4	3.9
ISOBUTANE.....	0.6	0.6	1.7
N-PENTANE.....	0.3	0.3	1.0
ISOPENTANE.....	0.3	0.3	0.5
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.2	0.2
NITROGEN.....	1.5	8.1	32.8
OXYGEN.....	0.1	TRACE	TRACE
ARGON.....	0.0	TRACE	0.2
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.1	0.2
HELIUM.....	0.10	0.26	0.42
HEATING VALUE*.....	1241	1127	1181
SPECIFIC GRAVITY.....	0.726	0.714	1.013

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16065	INDEX SAMPLE 15881	INDEX SAMPLE 16052
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	PARKER	PARKER	PECOS
FIELD.....	LAKE MINERAL WELLS	LAKE WEATHERFORD	NOT GIVEN
WELL NAME.....	J. C. PEIPELMAN NO. 2-C	YEARY NO. 1	UNIVERSITY 23-15 NO. 1
LOCATION.....	MEP SUK. NO. 341, A1493	W. FRANKLIN SUR. A-468	SEC. 15, BLK. 23, U L SUR.
OWNER.....	MITCHELL ENERGY CORP.	DALLAS PRODUCTION, INC.	EXXON CO.. USA
COMPLETED.....	05/11/79	06/--/77	NOT GIVEN
SAMPLED.....	09/12/80	01/16/80	08/21/80
FORMATION.....	PENN-ATOKA	PENN-CONGLOMERATE	PENN-MORROW
GEOLOGIC PROVINCE CODE...	420	420	430
DEPTH, FEET.....	4191	5600	17916
WELLHEAD PRESSURE, PSIG...	1516	1500	9950
OPEN FLOW, MCFD.....	4300	2106	2692
COMPONENT, MOLE PCT			
METHANE.....	77.7	83.3	96.6
ETHANE.....	11.7	9.6	0.6
PROPANE.....	4.9	2.8	0.1
N-BUTANE.....	1.3	0.5	0.0
ISOBUTANE.....	0.8	0.5	0.0
N-PENTANE.....	0.3	0.2	0.0
ISOPENTANE.....	0.5	0.1	0.0
CYCLOPENTANE.....	0.1	TRACE	0.0
HEXANES PLUS.....	0.3	0.2	0.0
NITROGEN.....	2.0	2.3	0.0
OXYGEN.....	TRACE	0.1	0.4
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	TRACE
CARBON DIOXIDE.....	0.3	0.0	0.0
HELIUM.....	0.10	0.10	2.3
HEATING VALUE.....	1248	1145	0.01
SPECIFIC GRAVITY.....	0.729	0.668	992
			0.582

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15984	INDEX SAMPLE 16027	INDEX SAMPLE 16028
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	POLK	POTTER	POTTER
FIELD.....	DAMASCUS	LAMBERT NO. 3	LAMBERT NO. 3
WELL NAME.....	ANICO NO. 1	EMENY-O'BRIEN NO. 2	EMENY-O'BRIEN NO. 2
LOCATION.....	I & G SUR., A-337	SEC. 30, BLK. M-19, G&M SUR.	SEC. 30, BLK. M-19, G&M SUR.
OWNER.....	HINTON PRODUCTION CO.	BAKER & TAYLOR DRILLING CO.	BAKER & TAYLOR DRILLING CO.
COMPLETED.....	NOT GIVEN	DRILL STEM TEST	DRILL STEM TEST
SAMPLED.....	06/--/80	08/09/80	08/--/80
FORMATION.....	CRET-WOODBINE	PERM-WICHITA ALBANY	PERM-WICHITA ALBANY
GEOLOGIC PROVINCE CODE...	220	440	440
DEPTH, FEET.....	9175	3412	3412
WELLHEAD PRESSURE, PSIG...	3467	65	65
OPEN FLOW, MCFD.....	37000	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	92.2	63.4	63.3
ETHANE.....	1.8	3.9	3.9
PROPANE.....	0.6	1.8	1.8
N-BUTANE.....	0.3	0.5	0.6
ISOBUTANE.....	0.1	0.3	0.3
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.1	0.1	0.2
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	2.0	27.6	27.5
OXYGEN.....	TRACE	0.1	0.1
ARGON.....	TRACE	0.1	0.1
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.5	TRACE	TRACE
HELIUM.....	0.03	1.83	1.81
HEATING VALUE.....	1013	803	810
SPECIFIC GRAVITY.....	0.616	0.719	0.722

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRNHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16029	INDEX SAMPLE 16030	INDEX SAMPLE 15990
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	POTTER	POTTER	POTTER
FIELD.....	LAMBERT NO. 3	LAMBERT NO. 3	WILDCAT
WELL NAME.....	EMERY-O'BRIEN NO. 1	EMERY-O'BRIEN NO. 2	EMERY NO. 1
LOCATION.....	SEC. 30, BLK. M-19, G&M SUR.	SEC. 30, BLK. M-19, G&M SUR.	SEC. 29, BLK M-19, G&M SUR.
OWNER.....	BAKER & TAYLOR DRILLING CO.	BAKER & TAYLOR DRILLING CO.	BAKER & TAYLOR DR. CO.
COMPLETD.....	DRILL STEM TEST	DRILL STEM TEST	NOT GIVEN
SAMPLED.....	06/--/80	08/09/80	06/28/80
FORMATION.....	PERM-WICHITA ALBANY	PERM-WICHITA ALBANY	PENN-GRANITE WASH
GEOLOGIC PROVINCE CODE.....	440	440	440
DEPTH, FEET.....	3412	3412	5700
WELLHEAD PRESSURE, PSIG.....	65	65	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	63.2	63.4	36.9
ETHANE.....	3.9	3.8	2.9
PROPANE.....	1.8	1.9	4.4
N-BUTANE.....	0.6	0.5	5.0
ISOBUTANE.....	0.3	0.3	2.4
N-PENTANE.....	0.1	0.1	2.1
ISOPENTANE.....	0.2	0.2	2.6
CYCLOPENTANE.....	0.1	0.1	0.5
HEXANES PLUS.....	0.1	0.1	1.4
NITROGEN.....	27.6	27.4	40.7
OXYGEN.....	0.1	0.1	TRACE
ARGON.....	0.1	0.1	0.3
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	0.1
HELIUM.....	1.85	1.83	0.65
HEATING VALUE.....	809	808	1081
SPECIFIC GRAVITY.....	0.724	0.720	1.028

\* CALCULATED GROSS HTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 181 16000	INDEX SAMPLE 182 16080	INDEX SAMPLE 183 16068
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	POTTER	POTTER	ROBERTS
FIELD.....	WILDCAT	WILDCAT	LEDRIK RANCH
WELL NAME.....	EMERY NO. 1	EMERY NO. 1	LEDRIK NO. 2-55
LOCATION.....	SEC. 29, BLK. M-19, G&M SUR.	SEC. 29, BLK. M-19, G&M SUR.	SEC. 55, BLK. C, G&M SUR.
OWNER.....	BAKER & TAYLOR DRILLING CO.	BAKER & TAYLOR DRILLING CO.	TENNECO OIL CO.
COMPLETED.....	07/09/80	07/09/80	06/24/80
SAMPLED.....	07/17/80	09/24/80	09/18/80
FORMATION.....	PENN-GRANITE WASH	PENN-GRANITE WASH	PENN-MORROW
GEOLOGIC PROVINCE CODE.....	440	440	360
DEPTH, FEET.....	5700	5700	9285
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	1200
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	2500
COMPONENT, MOLE PCT			
METHANE.....	43.6	37.3	76.9
ETHANE.....	3.6	2.7	13.6
PROPANE.....	4.4	3.1	5.4
N-BUTANE.....	2.6	2.4	1.3
ISOBUTANE.....	1.3	1.3	0.3
N-PENTANE.....	0.9	0.6	0.2
ISOPENTANE.....	1.0	0.8	0.2
CYCLOPENTANE.....	0.2	0.5	TRACE
HEXANES PLUS.....	0.6	0.7	0.1
NITROGEN.....	40.1	49.4	1.4
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	0.4	0.4	0.0
HYDROGEN.....	TRACE	0.2	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.7	0.0	0.0
HELIUM.....	0.61	0.58	0.05
HEATING VALUE*.....	871	747	1239
SPECIFIC GRAVITY.....	0.904	0.912	0.720

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16140	INDEX SAMPLE 16106	INDEX SAMPLE 16091
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	ROBERTS	SAN PATRICIO	SHACKELFORD
FIELD.....	MENDOTA NW	BRANNON	ROCKWELL S
WELL NAME.....	FLOWERS TRUST "H" NO. 3	J.R.C. BRANNON NO. 1	WALKER BUCKLER 78 NO. 1
LOCATION.....	SEC. C, B&F SUR.	P. BRYODY SUR. A-52	SEC. 78, BLK. 12, T&PRR SUR.
OWNER.....	EXXON CO., U.S.A.	WAINOCO OIL & GAS CO.	JONES CO.
COMPLETED.....	NOT GIVEN	01/31/79	10/11/79
SAMPLED.....	12/08/80	10/21/80	10/10/80
FORMATION.....	PENN-GRANITE WASH	OLIG-FRIO	-CONGLOMERATE
GEOLOGIC PROVINCE CODE.....	360	220	425
DEPTH, FEET.....	10102	10521	4578
WELLHEAD PRESSURE, PSIG.....	1835	6755	1383
OPEN FLOW, MCFO.....	21500	3537	7500
COMPONENT, MOLE PCT			
METHANE.....	77.5	88.8	70.6
ETHANE.....	8.3	6.2	10.5
PROPANE.....	7.4	2.5	5.5
N-BUTANE.....	1.9	0.5	1.4
ISOBUTANE.....	0.7	0.6	0.6
N-PENTANE.....	0.2	0.1	0.4
ISOPENTANE.....	0.1	0.1	0.3
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.3
NITROGEN.....	3.5	0.2	10.0
OXYGEN.....	TRACE	TRACE	0.1
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.8	0.1
HELIUM.....	0.12	TRACE	0.27
HEATING VALUE**.....	1231	1126	1162
SPECIFIC GRAVITY.....	0.732	0.641	0.757

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16097	INDEX SAMPLE 16022	INDEX SAMPLE 16071
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	STARR	STERLING	VAL VERDE
FIELD.....	NOT GIVEN	STERLING CITY	MASSIE
WELL NAME.....	I-V.MONTALVO "C" NO.39L	WILLIAMS NO. 2-4	WEST A NO. 1
LOCATION.....	LOS RETACHEZ GNT. A347	SEC. 4, BLK. T, T&P SUR.	SEC. 13, BLK. O, GH&SA SUR.
OWNER.....	SUN GAS CO.	MESA PETROLEUM CO.	CITIES SERVICE CO.
COMPLETED.....	NOT GIVEN	05/13/79	07/10/80
SAMPLED.....	10/14/80	07/30/80	09/16/80
FORMATION.....	OLIG-VICKSBURG	SILU-FUSSELMAN	PENN-STRAHN
GEOLOGIC PROVINCE CODE...	220	430	430
DEPTH, FEET.....	7140	8400	11100
WELLHEAD PRESSURE,PSIG...	NOT GIVEN	2398	4200
OPEN FLOW, MCFD.....	3222	3400	3975
COMPONENT, MOLE PCT			
METHANE.....	91.1	66.0	93.4
ETHANE.....	4.6	15.8	0.3
PROPANE.....	2.0	7.3	TRACE
N-BUTANE.....	0.6	1.8	0.0
ISOBUTANE.....	0.5	0.8	0.0
N-PENTANE.....	0.2	0.3	0.0
ISOPENTANE.....	0.3	0.3	0.0
CYCLOPENTANE.....	0.1	0.1	0.0
HEXANES PLUS.....	0.3	0.2	0.0
NITROGEN.....	0.2	6.3	1.1
OXYGEN.....	TRACE	0.4	0.1
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.7	4.9
HELIUM.....	TRACE	0.03	0.06
HEATING VALUE*.....	1135	1268	952
SPECIFIC GRAVITY.....	0.633	0.799	0.608

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16020	INDEX SAMPLE 15961	INDEX SAMPLE 15950
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	WARD	WARD	WHEELER
FIELD.....	MERIDIAN S	GUIDAR	CANDICE
WELL NAME.....	UNIVERSITY 27-19 NO. 1	GULF NO. 1	SHELTON NO. 1
LOCATION.....	SEC. 27, BLK. 19, ULS SUR.	SEC. 181, BLK. 34, H&TC SUR.	SEC. 77, BLK. A-5, H&GN SUR.
OWNER.....	GETTY OIL CO.	EXXON CORP.	NATURAL GAS ANADARKO, INC.
COMPLETED.....	05/15/79	06/19/79	08/29/79
SAMPLED.....	07/30/80	05/15/80	04/21/80
FORMATION.....	PERM-WICHITA ALBANY	SILU-FUSSELMAN	PENN-MORROW
GEOLOGIC PROVINCE CODE...	430	430	360
DEPTH, FEET.....	15667	17735	12597
WELLHEAD PRESSURE, PSIG...	8650	4915	3712
OPEN FLOW, MCFD.....	5100	23440	2400
COMPONENT, MOLE PCT			
METHANE.....	94.7	94.3	82.3
ETHANE.....	2.9	0.5	9.8
PROPANE.....	0.6	0.1	4.3
N-BUTANE.....	0.1	TRACE	1.0
ISOBUTANE.....	0.1	TRACE	0.5
N-PENTANE.....	0.1	TRACE	0.2
ISOPENTANE.....	0.1	0.0	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	0.9	0.4	0.9
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	4.5	0.5
HELIUM.....	0.01	0.01	0.02
HEATING VALUE**.....	1047	972	1203
SPECIFIC GRAVITY.....	0.593	0.605	0.692

\* CALCULATED GROSS HTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980.

	INDEX SAMPLE 16133	INDEX SAMPLE 16076	INDEX SAMPLE 16103
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	WHEELER	WHEELER	ZAPATA
FIELD.....	FARFIS	WILDCAT	EL GRULLO
WELL NAME.....	FARFIS "C" NO. 2-18	E. T. DAVIS NO. 1	ANTONIO M. VELA NO. C-1
LOCATION.....	SEC. 18, BLK. A-4, H8GM	SEC. 60, BLK. A7, H8GM SUR.	EL GRULLO GRT. A-37
OWNER.....	SEARCH DRILLING CO.	HUNT ENERGY CORP.	PENNZOIL CO.
COMPLETED.....	06/12/80	04/08/80	NOT GIVEN
SAMPLED.....	11/18/80	09/04/80	10/18/80
FORMATION.....	DEVON-HUNTON	PENN-MORROW	EOCE-WILCOX
GEOLOGIC PROVINCE CODE...	360	360	220
DEPTH, FEET.....	16306	17425	6762
WELLHEAD PRESSURE, PSIG...	4639	6559	3700
OPEN FLOW, MCFD.....	57000	2393	7900
COMPONENT, MOLE PCF			
METHANE.....	95.2	97.3	92.8
ETHANE.....	2.3	0.8	3.4
PROPANE.....	0.6	0.1	0.8
N-BUTANE.....	0.2	0.1	0.2
ISOBUTANE.....	0.1	TRACE	0.1
N-PENTANE.....	0.1	TRACE	0.1
ISOPENTANE.....	0.1	0.0	0.1
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.8	0.5	0.3
OXYGEN.....	0.0	0.1	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	1.0	1.9
HELIUM.....	0.02	0.01	0.01
HEATING VALUE*.....	1045	1011	1049
SPECIFIC GRAVITY.....	0.589	0.576	0.612

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

STATE.....	COUNTY.....	WELL NAME.....	LOCATION.....	OWNER.....	COMPLETED.....	SAMPLED.....	FORMATION.....	GEOLOGIC PROVINCE CODE.....	DEPTH, FEET.....	WELLHEAD PRESSURE, PSIG.....	OPEN FLOW, MCFO.....	COMPONENT, MOLE PCT	INDEX 196		INDEX 197		INDEX 198	
													INDEX SAMPLE	15677	INDEX SAMPLE	16078	INDEX SAMPLE	16061
UTAH	GRAND	BRYSON CANYON	FEDERAL NO. 3-15	SEC. 3, T17S, R24E	TENNECO OIL CO.	08/04/79	CRET-DAKOTA	585	4634	920	2500		UTAH		UTAH		UTAH	
						01/09/80							SUMMIT		ANSCHUTZ E		UINTA	
													BOUNDIFUL LIVESTOCK NO. 1		MAIN CANYON NO. 14-16		BOOK CLIFF	
													SEC. 16, T4N, R8E		SEC. 16, T15S, R23E			
													AMOCO PRODUCTION CO.		COSEKA RESOURCES (U.S.A.)			
													09/16/80		NOT GIVEN			
													JURA-NUGGET		08/27/80			
													570		CRET-DAKOTA			
													13350		575			
													2950		8600			
													5000		600			
															756			
													77.4		63.8			
													13.0		4.8			
													5.1		1.2			
													1.0		0.3			
													0.8		0.2			
													0.2		0.1			
													0.2		0.1			
													TRACE		TRACE			
													0.1		0.1			
													1.7		28.5			
													0.0		0.0			
													TRACE		TRACE			
													0.0		0.0			
													0.0		0.0			
													0.4		0.0			
													0.02		0.03			
													1232		794			
													0.718		0.729			

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15995	INDEX SAMPLE 200 16069	INDEX SAMPLE 201 16096
STATE.....	UTAH	UTAH	WEST VIRGINIA
COUNTY.....	UINTAH	UINTAH	FAYETTE
FIELD.....	CHAPITA	NATURAL BUTTES	HAWK'S NEST
WELL NAME.....	CHAPITA UNIT 4525	NBU-36Y	M. D. STEELE NO. 1
LOCATION.....	SEC. 25, T 9S, R22E	SEC. 35, T9S, R21E	LAUREL CREEK
OWNER.....	BELCO PETROLEUM CORP.	INTEGRITY OIL & GAS CO.	CABOT OIL & GAS CORP.
COMPLETFD.....	01/22/80	03/18/80	10/20/78
SAMPLED.....	06/26/80	09/18/80	10/09/80
FORMATION.....	EOCE-WASATCH	EOCE-WASATCH	MISS-RAVENCLIFF
GEOLOGIC PROVINCE CONF.....	575	575	160
DEPTH, FEET.....	5893	5538	1260
WELLHEAD PRFSSURF, PSIG.....	NOT GIVEN	2300	130
OPEN FLOW, MCFD.....	2250	NOT GIVEN	210
COMPONENT, MOLE PCT			
METHANE.....	91.2	92.5	90.5
ETHANE.....	5.2	4.3	5.8
PROPANE.....	1.7	1.2	1.1
N-BUTANE.....	0.4	0.3	0.2
ISOBUTANE.....	0.3	0.2	0.2
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.2	0.2	0.1
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	0.3	0.4	0.1
OXYGEN.....	TRACE	TRACE	1.3
ARGON.....	TRACE	TRACE	0.2
HYDROGEN.....	0.0	0.3	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.1	0.2
HELIUM.....	0.01	TRACE	0.04
HEATING VALUE*.....	1103	1090	1076
SPECIFIC GRAVITY.....	0.619	0.608	0.614

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15917	INDEX SAMPLE 15922	INDEX SAMPLE 204 16034
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WYOMING
COUNTY.....	MINERAL	RALEIGH	CARBON
FIELD.....	NOT GIVEN	SHADY SPRING DISTRICT	WANSUTTER
WELL NAME.....	MASTELLAR COAL CO, 20364-T	NO. 20622-T	CHAMPLIN 222D NO. 1
LOCATION.....	NEW CREEK DISTRICT	CRAB ORCHARD QUADRANGLE	SEC.27,T19N,R93W
OWNER.....	COLUMBIA GAS	COLUMBIA GAS TRANS. CORP.	AMOCO PRODUCTION CO.
COMPLETED.....	12/20/78	09/24/79	NOT GIVEN
SAMPLED.....	03/03/80	03/11/80	08/14/80
FORMATION.....	DEVO-OKISKANY	MISS-WEIR	CRET-ALMOND
GEOLOGIC PROVINCE CODE.....	160	160	535
DEPTH, FEET.....	4494	3298	8970
WELLHEAD PRESSURE, PSIG.....	3600	928	NOT GIVEN
OPEN FLOW, MCFD.....	9728	3998	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	97.6	93.8	77.3
ETHANE.....	1.6	1.3	10.6
PROPANE.....	0.1	0.4	7.1
N-BUTANE.....	0.0	0.0	1.0
ISOBUTANE.....	0.0	0.4	1.1
N-PENTANE.....	0.0	0.1	0.2
ISOPENTANE.....	0.0	0.3	0.2
CYCLOPENTANE.....	0.0	0.7	TRACE
HEXANES PLUS.....	0.0	1.3	0.1
NITROGEN.....	0.4	1.4	0.2
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.1	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	2.2
HELIUM.....	0.04	0.08	0.01
HEATING VALUE.....	1020	1108	1250
SPECIFIC GRAVITY.....	0.565	0.627	0.742

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16074	INDEX SAMPLE 16152	INDEX SAMPLE 15976
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	FREMONT	FREMONT	FREMONT
FIELD.....	LYSITE	MONETA HILLS	PAVILLION
WELL NAME.....	LONG BUTTE NO. 1	MONETA NO. 1-29	USA-TRIBAL NO. 22-10
LOCATION.....	SEC. 32, T39N, R91W	SEC. 29, T38N, R90W	SEC. 10, T3N, R2E
OWNER.....	MONSANTO CO.	COLUMBIA GAS DEVELOPMENT	SHELL OIL CO.
COMPLETED.....	NOT GIVEN	01/25/80	12/05/79
SAMPLED.....	09/16/80	12/12/80	05/29/80
FORMATION.....	CRET-MESAVERDE	CRET-SHANNON	EOCE-WIND RIVER
GEOLOGIC PROVINCE CODE.....	530	530	530
DEPTH, FEET.....	NOT GIVEN	20065	3274
WELLHEAD PRESSURE, PSIG..	7250	10000	461
OPEN FLOW, MCFD.....	NOT GIVEN	1000	500
COMPONENT, MOLE PCT			
METHANE.....	95.7	95.8	35.3
ETHANE.....	0.2	0.2	1.4
PROPANE.....	TRACE	TRACE	0.1
N-BUTANE.....	0.0	TRACE	TRACE
ISOBUTANE.....	0.0	TRACE	TRACE
N-PENTANE.....	0.0	TRACE	TRACE
ISOPENTANE.....	0.0	TRACE	TRACE
CYCLOPENTANE.....	0.0	0.1	TRACE
HEXANES PLUS.....	0.0	0.1	0.1
NITROGEN.....	0.1	0.3	48.9
OXYGEN.....	0.0	0.1	13.4
ARGON.....	0.0	TRACE	0.6
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	3.9	3.4	0.1
HELLUM.....	TRACE	TRACE	0.03
HEATING VALUE*.....	973	943	390
SPECIFIC GRAVITY.....	0.593	0.595	0.846

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15977	INDEX SAMPLE 209 16035	INDEX SAMPLE 210 16081
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	FREMONT	FREMONT	JOHNSON
FIELD.....	PAVILLION	PAVILLION	LITTLE RUGHER DRAW
WELL NAME.....	USA-TRIBAL NO. 22-10	SHELL TRIBAL NO. 22-10	LITTLE RUGHER DRAW NO. 1
LOCATION.....	SEC. 10, T3N, R2E	SEC. 10, T3N, R2E	SEC. 12, T49N, R78W
OWNER.....	SHELL OIL CO.	SHELL OIL CO.	ELF AQUITAINE OIL & GAS
COMPLETED.....	12/05/79	12/05/79	09/23/80
SAMPLED.....	05/29/80	08/11/80	09/24/80
FORMATION.....	EOCF-FT UNION	EOCF-WIND RIVER	CRET-MOMRY
GEOLOGIC PROVINCE CODE.....	530	530	515
DEPTH, FEET.....	4819	3274	11039
WELLHEAD PRESSURE, PSIG.....	1801	461	4400
OPEN FLOW, MCF/D.....	2431	2431	2500
COMPONENT, MOLE PCT			
METHANE.....	94.9	96.2	78.5
ETHANE.....	3.7	2.9	12.5
PROPANE.....	0.3	0.2	4.7
N-BUTANE.....	0.1	0.1	1.1
ISOBUTANE.....	0.1	0.1	0.6
N-PENTANE.....	0.1	TRACE	0.2
ISOPEHTANE.....	0.1	TRACE	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	0.5	0.4	0.2
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	TRACE	1.6
HELIUM.....	0.01	0.01	0.01
HEATING VALUE**.....	1056	1044	1230
SPECIFIC GRAVITY.....	0.591	0.578	0.719

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16019	INDEX SAMPLE 16100	INDEX SAMPLE 16082
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	LINCOLN	SUBLETTE	SUBLETTE
FIELD.....	WILSON RANCH	TIP TOP	WILDCAT
WELL NAME.....	CHRISMAN, ET.AL NO. 1	TIP TOP NO. T54-26	RILEY RIDGE FEDERAL NO.8-24
LOCATION.....	SEC. 18, T20N, R112W	SEC. 2, T28N, R114W	SEC. 8, T29N, R114W
OWNER.....	C & K PETROLEUM INC.	MOBIL OIL CORP.	AMERICAN QUASAR PET. CO.
COMPLETED.....	08/18/78	NOT GIVEN	NOT GIVEN
SAMPLED.....	07/24/80	10/13/80	09/24/80
FORMATION.....	CRET-FRONTIER, 2ND	MISS-MADISON	MISS-MADISON
GEOLOGIC PROVINCE CODE.....	535	535	535
DEPTH, FEET.....	11147	14627	14437
WELLHEAD PRESSURE,PSIG..	2300	2910	3050
OPEN FLOW, MCFD.....	2503	NOT GIVEN	150000
COMPONENT, MOLE PCT			
METHANE.....	81.0	18.7	19.4
ETHANE.....	11.8	0.1	0.1
PROPANE.....	4.0	0.1	0.0
N-BUTANE.....	0.7	0.0	0.0
ISOBUTANE.....	0.6	0.0	0.0
N-PENTANE.....	0.1	0.0	0.0
ISOPENTANE.....	0.3	0.0	0.0
CYCLOPENTANE.....	TRACE	0.0	0.0
HEXANES PLUS.....	0.1	0.0	0.0
NITROGEN.....	0.8	7.3	7.3
OXYGEN.....	TRACE	0.1	0.0
ARGON.....	0.0	0.1	0.1
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	3.5	4.2
CARBON DIOXIDE.....	0.5	69.7	68.4
HELIUM.....	0.01	0.59	0.54
HEATING VALUE*.....	1202	216	225
SPECIFIC GRAVITY.....	0.690	1.288	1.277

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16083	INDEX SAMPLE 16151	INDEX SAMPLE 15870
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	SURLEITE	SWEETWATER	SWEETWATER
FIELD.....	WILDCAT	BRUFF	BUSH LAKE
WELL NAME.....	RILEY RIDGE FEDERAL NO. A-24	GOVT. R. M. DONLEY NO. 1	FEDERAL Q NO. 1
LOCATION.....	SEC. 9, T29N, R114W	SEC. 2, T18N, R112W	SEC. 28, T25N, R96W
OWNER.....	AMERICAN QUASAR PET. CO.	TEXACO INC.	TEXAS OIL & GAS CORP.
COMPLETED.....	NOT GIVEN	08/18/80	06/25/78
SAMPLED.....	09/24/80	12/15/80	12/18/79
FORMATION.....	MISS-MADISON	CRET-DAKOTA	CRET-ALMOND
GEOLOGIC PROVINCE CODE.....	535	535	535
DEPTH, FEET.....	14437	12030	12750
WELLHEAD PRESSURE, PSIG.....	3050	5400	7700
OPEN FLOW, MCFD.....	150000	10240	2100
COMPONENT, MOLE PCT			
METHANE.....	18.8	88.1	92.9
ETHANE.....	0.1	6.7	0.8
PROPANE.....	0.0	2.1	0.1
N-BUTANE.....	0.0	0.4	0.0
ISOBUTANE.....	0.0	0.4	0.0
N-PENTANE.....	0.0	0.1	0.0
ISOPENTANE.....	0.0	0.2	0.0
CYCLOPENTANE.....	0.0	0.1	0.0
HEXANES PLUS.....	0.0	0.2	0.0
NITROGEN.....	7.4	0.8	0.4
OXYGEN.....	0.0	TRACE	0.1
ARGON.....	0.1	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	3.7	0.0	0.0
CARBON DIOXIDE.....	69.4	0.7	5.7
HELIUM.....	0.56	0.01	TRACE
HEATING VALUE.....	216	1121	958
SPECIFIC GRAVITY.....	1.284	0.642	0.617

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 15901	INDEX SAMPLE 16070	INDEX SAMPLE 15947
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	SWEETWATER	UINTA	UINTA
FIELD.....	CAMEL ROCK	CLEAR CREEK	YELLOW CREEK
WELL NAME.....	AMOCO-CHAMPLIN NO. 33-34	PRV22-98	AMOCO-ANSCHUTZ NO. 1
LOCATION.....	SEC. 33, T18N, R102W	SEC. 9, T16N, R119W	SEC. 11, T14N, R121W
OWNER.....	HOUSTON OIL & MINERALS CORP.	CHEVRON U.S.A. INC.	AMOCO PRODUCTION CO.
COMPLETED.....	11/07/79	04/22/80	12/04/79
SAMPLED.....	02/08/80	09/17/80	04/18/80
FORMATION.....	CRET-FRONTIER	JURA-NUGGET	JURA-TWINCREEK
GEOLOGIC PROVINCE CODE...	535	535	535
DEPTH, FEET.....	5139	8713	5968
WELLHEAD PRESSURE, PSIG...	1750	NOT GIVEN	900
OPEN FLOW, MCFD.....	7062	3228	3500
COMPONENT, MOLE PCT			
METHANE.....	87.1	79.3	77.6
ETHANE.....	5.3	11.0	9.7
PROPANE.....	1.3	4.8	4.3
N-BUTANE.....	0.2	1.1	1.3
ISOBUTANE.....	0.1	1.0	1.3
N-PENTANE.....	TRACE	0.2	0.3
ISOPENTANE.....	TRACE	0.3	0.4
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	TRACE	0.2	0.3
NITROGEN.....	5.0	1.9	4.7
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.1	0.1
HELIUM.....	0.43	0.02	0.05
HEATING VALUE**.....	1021	1231	1208
SPECIFIC GRAVITY.....	0.618	0.714	0.729

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 1 15872	INDEX SAMPLE 2 15871	INDEX SAMPLE 3 15873
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	KERN	KERN	KINGS
FIELD.....	COLES LEVEE N	COLES LEVEE S	KETTLEMAN HILLS
PLANT NAME.....	METER NO. 4702	METER NO. 4709	METER NO. 4228
LOCATION.....	10 IN. LINE 103	34 IN. LINE 225	26 IN. LINE
OWNER.....	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.	SOUTHERN CALIFORNIA GAS CO.
SAMPLED.....	12/28/79	12/31/79	01/01/80
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	745	745	745
PRESSURE, PSIG.....	430	650	400
FLOW, MCFD.....	3000	70000	5000
COMPONENT, MOLE PCT			
METHANE.....	88.9	91.7	93.5
ETHANE.....	7.8	6.2	4.4
PROPANE.....	0.1	0.7	0.2
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	1.0	0.4	1.1
OXYGEN.....	0.1	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.0	1.1	0.9
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1043	1058	1031
SPECIFIC GRAVITY.....	0.618	0.605	0.592

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16120	INDEX SAMPLE 16010	INDEX SAMPLE 16012
STATE.....	COLORADO	COLORADO	COLORADO
COUNTY.....	LA PLATA	LOGAN	MORGAN
FIELD.....	ALL COLORADO	ALL S WYOMING	WYOMING & KANSAS
PLANT NAME.....	TIFFANY COMPRESSOR STA.	MERINO GATE VALVE	FT. MORGAN STORAGE
LOCATION.....	8 IN.	20 IN. MERINO #	16 IN.
OWNER.....	WESTERN SLOPE GAS CO.	CITIES SERVICE GAS CO.	COLORADO INTERSTATE GAS CO.
SAMPLED.....	10/28/80	07/15/80.	07/15/80
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	580	540	540
PRESSURE, PSI.....	750	560	1600
FLOW, MCFD.....	14500	60000	53000
COMPONENT, MOLE PCT			
METHANE.....	95.0	84.0	89.3
ETHANE.....	1.2	8.8	6.9
PROPANE.....	0.2	3.1	0.8
N-BUTANE.....	TRACE	0.7	0.1
ISOBUTANE.....	0.1	0.6	0.1
N-PENTANE.....	TRACE	0.2	TRACE
ISOPEENTANE.....	0.0	0.2	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	TRACE
NITROGEN.....	TRACE	0.0	0.7
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	3.3	2.3	2.0
HELIUM.....	0.01	0.01	0.03
HEATING VALUE.....	994	1155	1056
SPECIFIC GRAVITY.....	0.598	0.681	0.621

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16011	INDEX SAMPLE 16009	INDEX SAMPLE 16008
STATE.....	COLORADO	NEBRASKA	NEBRASKA
COUNTY.....	WELD	CHEYENNE	DEVEL
FIELD.....	WESTERN WYOMING	WYOMING-PINE BLUFF AREA	HUNTSMAN & CASPER AREA
PLANT NAME.....	CHEYENNE COMPRESSOR STA.	HUNTSMAN COMPRESSOR STA.	BIG SPRINGS COMPRESSOR STA.
LOCATION.....	22 IN. & 24 IN.	OUTLET	12 IN.
OWNER.....	COLORADO INTERSTATE GAS CO.	KANSAS NEBRASKA NAT. GAS CO.	KANSAS-NEBRASKA NAT. GAS CO.
SAMPLED.....	07/14/80	07/14/80	07/14/80
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE (CODE).....	540	540	540
PRESSURE (PSIG).....	540	555	895
FLOW (MCFD).....	315000	27000	100000
COMPONENT, MOLE PCT			
METHANE.....	89.1	89.4	89.7
ETHANE.....	5.8	6.3	6.0
PROpane.....	1.1	1.1	1.0
N-BUTANE.....	0.2	0.3	0.3
ISOBUTANE.....	0.1	0.2	0.1
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.1	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	1.7	0.9	1.1
OXYGEN.....	0.0	0.0	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.7	1.5	1.4
HELIUM.....	0.02	0.02	0.02
HEATING VALUE*.....	1059	1078	1069
SPECIFIC GRAVITY.....	0.629	0.629	0.625

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 10 16123	INDEX SAMPLE 11 16113	INDEX SAMPLE 12 16109
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	CHAVES	CHAVES	MCKINLEY
FIELD.....	PERMIAN	PERMIAN BASIN	0'KUTZ & JICARILLA
PLANT NAME.....	ROSWELL COMPRESSOR STA.	ROSWELL COMPRESSOR STA.	STAR LAKE COMPRESSOR
LOCATION.....	30 IN. OUTLET	30 IN.	OUTLET 20 IN.
OWNER.....	TRANSWESTERN PIPELINE CO.	EL PASO NATURAL GAS CO.	SOUTHERN UNION GAS CO.
SAMPLED.....	10/23/80	10/23/80	10/24/80
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	430	430	580
PRESSURE, PSIG.....	1008	718	600
FLOW, MCF/D.....	700000	600000	150000
COMPONENT, MOLE PCT			
METHANE.....	94.1	88.7	94.9
ETHANE.....	2.8	6.7	3.6
PROPANE.....	0.7	0.8	0.4
N-BUTANE.....	0.2	0.1	0.1
ISOBUTANE.....	TRACE	0.1	TRACE
N-PENTANE.....	0.1	TRACE	TRACE
ISOPENTANE.....	0.0	TRACE	0.1
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.4	0.1	TRACE
NITROGEN.....	1.0	2.9	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.5	0.5
HELIUM.....	0.04	0.04	0.03
HEATING VALUE*.....	1057	1051	1044
SPECIFIC GRAVITY.....	0.602	0.617	0.586

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY



TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16111	INDEX SAMPLE 16116	INDEX SAMPLE 16114
STATE.....	NEW MEXICO	TEXAS	TEXAS
COUNTY.....	MCKINLEY	CRANE	EL PASO
FIELD.....	SAN JUAN BASIN	WEST TEXAS AREA	PERMIAN BASIN N.
PLANT NAME.....	GALLUP COMPRESSOR STA.	CRANE COMPRESSOR STA.	EL PASO COMPRESSOR STA.
LOCATION.....	24 IN. GALLUP "B"	36 IN.	A & B LINES
OWNER.....	FL PASO NATURAL GAS CO.	VALERO TRANSMISSION CO.	EL PASO NATURAL GAS CO.
SAMPLED.....	10/27/80	10/21/80	10/22/80
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	580	430	465
PRESSURE:PSIG.....	560	925	552
FLOW:MCFD.....	400000	350000	1179000
COMPONENT, MOLE PCT			
METHANE.....	89.1	96.4	91.8
ETHANE.....	7.5	1.5	4.8
PROPANE.....	1.6	0.2	1.1
N-BUTANE.....	0.1	0.1	0.2
ISOBUTANE.....	0.1	TRACE	0.1
N-PENTANE.....	TRACE	TRACE	TRACE
ISOPENTANE.....	TRACE	TRACE	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	TRACE	0.1
NITROGEN.....	0.5	0.8	1.7
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.0	1.0	0.2
HELIUM.....	0.02	0.02	0.03
HEATING VALUE*.....	1045	1012	1060
SPECIFIC GRAVITY.....	0.622	0.583	0.605

\* CALCULATED GROSS BTU PER CU. FT., DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16115	INDEX SAMPLE 17110	INDEX SAMPLE 18121
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	EL PASO	LAMB	LYNN
FIELD.....	WAMA AREA S.	PERMIAN BASIN	WEST TEXAS PERMIAN BASIN
PLANT NAME.....	EL PASO COMPRESSOR STA.	DEMIT COMPRESSOR STA.	TAHOKA COMPRESSOR STA.
LOCATION.....	C LINE 30 IN.	24 IN. OUTLET	OUTLET
OWNER.....	EL PASO NATURAL GAS CO.	EL PASO NATURAL GAS CO.	PIONEER CORP.
SAMPLED.....	10/22/80	10/20/80	10/20/80
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	465	435	430
PRESSURE, PSIG.....	812	725	450
FLOW, MCFD.....	623000	130000	70000
COMPONENT, MOLE PCT			
METHANE.....	96.1	88.0	93.6
ETHANE.....	1.4	5.4	3.2
PROPANE.....	0.4	0.8	0.7
N-BUTANE.....	0.1	0.2	0.2
ISOBUTANE.....	TRACE	TRACE	TRACE
N-PENTANE.....	TRACE	0.1	0.1
ISOPENTANE.....	TRACE	TRACE	0.0
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.6	4.4	2.0
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	1.0	0.1
HELIUM.....	0.03	0.05	0.03
HEATING VALUE.....	1017	1025	1040
SPECIFIC GRAVITY.....	0.583	0.625	0.594

\* CALCULATED GROSS HTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16117	INDEX SAMPLE 16122	INDEX SAMPLE 16118
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	PECOS	PECOS	PECOS
FIELD.....	50M FZ	WEST TFXAS	WEST TEXAS GAS
PLANT NAME.....	GRAY RANCH COMPRESSOR STA.	WAHA COMPRESSOR STA.	WAHA COMPRESSOR STA.
LOCATION.....	30 III.	36 IN. OUTLET	OUTLET
OWNER.....	VALECO TRANSMISSION CO.	LOME STAR GAS CO.	OASIS PIPE LINE CO.
SAMPLE.....	10/21/80	10/21/80	10/21/80
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	430	430	430
PRESSURE, PSIG.....	700	700	900
FLOW, MCFD.....	NOT GIVEN	220000	360000
COMPONENT, MOLE PCT			
METHANE.....	96.6	95.5	96.5
ETHANE.....	6.7	2.0	1.3
PROPANE.....	2.3	0.5	0.2
N-BUTANE.....	0.6	0.1	0.1
ISOBUTANE.....	0.3	0.1	TRACE
N-PENTANE.....	0.1	TRACE	TRACE
ISOPENTANE.....	0.2	TRACE	TRACE
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	1.8	1.1	0.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	0.7	1.1
HELIUM.....	0.08	0.02	0.02
HEATING VALUE*.....	1109	1028	1015
SPECIFIC GRAVITY.....	0.654	0.587	0.579

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16003	INDEX SAMPLE 16119	INDEX SAMPLE 16004
STATE.....	UTAH	UTAH	UTAH
COUNTY.....	CARBON	SAN JUAN	SUMMIT
FIELD.....	VERNAL & COLORADO	SAN JUAN BASIN	SW WYO., NW COLO., & NE UTAH
PLANT NAME.....	PRICE STA.	MOAB COMPRESSOR STA.	COALVILLE STA.
LOCATION.....	20 IN.	26 IN. OUTLET	INLET
OWNER.....	NOT GIVEN	NORTHWEST PIPELINE CORP.	MOUNTAIN FUEL SUPPLY CO.
SAMPLED.....	07/09/80	10/27/80	07/10/80
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	575	585	570
PRESSURE, PSIG.....	421	750	400
FLOW, MCFD.....	64000	280000	48000
COMPONENT, MOLE PCT			
METHANE.....	89.5	90.2	83.6
ETHANE.....	6.3	6.4	9.5
PROPANE.....	1.3	1.5	1.9
N-BUTANE.....	0.2	TRACE	0.3
ISOBUTANE.....	0.1	TRACE	0.1
N-PENTANE.....	0.1	TRACE	0.1
ISOPENTANE.....	0.1	0.0	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	TRACE	0.1
NITROGEN.....	1.7	0.4	4.1
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	1.3	0.3
HELIUM.....	0.07	0.01	0.05
HEATING VALUE*.....	1077	1067	1094
SPECIFIC GRAVITY.....	0.621	0.614	0.653

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY



TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16001	INDEX SAMPLE 16002	INDEX SAMPLE 16005
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	LINCOLN	LINCOLN	NATRONA
FIELD.....	HIG PINEY, LABARGE AREA	COLO. WYO., & UTAH	BEAVER CREEK & N GRIEVE
PLANT NAME.....	OPAL GASOLINE	KEMMERER COMPRESSOR STA.	NEW TOWN BORDER METER
LOCATION.....	30 IN.	26 IN.	16 IN.
OWNER.....	NORTHWEST PIPELINE CORP.	NORTHWEST PIPELINE CORP.	NORTHERN UTILITIES, INC.
SAMPLED.....	07/10/80	07/10/80	07/11/80
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	535	535	530
PRESSURE, PSIG.....	700	600	200
FLOW, MCM/D.....	161000	NOT GIVEN	10000
COMPONENT, MOLE PCT			
METHANE.....	93.7	91.5	89.5
ETHANE.....	5.5	5.7	7.4
PROPANE.....	2.0	0.8	0.3
N-BUTANE.....	3.4	0.1	TRACE
ISOBUTANE.....	0.3	0.1	0.0
N-PENTANE.....	0.1	TRACE	TRACE
ISOPENTANE.....	0.1	TRACE	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	TRACE	TRACE
NITROGEN.....	0.6	0.8	0.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.9	2.2
HELIUM.....	0.02	0.03	0.01
HEATING VALUE.....	1106	1057	1047
SPECIFIC GRAVITY.....	0.623	0.605	0.618

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1980

	INDEX SAMPLE 16007	INDEX SAMPLE 16006
STATE.....	WYOMING	WYOMING
COUNTY.....	NATRONA	NATRONA
FIELD.....	POWELL & MCCULLOCK	W. WYOMING TO CASPER
PLANT NAME.....	NORTHERN PIPELINE METER	KING SUCTION METER
LOCATION.....	6 IN.	20 IN.
OWNER.....	NORTHERN UTILITIES, INC.	KANSAS-NEBRASKA NAT. GAS CO.
SAMPLED.....	07/11/80	07/11/80
FORMATION.....	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	530	530
PRESSURE, PSIG.....	200	375
FLOW, MCFD.....	9000	40000
COMPONENT, MOLE PCT		
METHANE.....	70.1	92.3
ETHANE.....	15.5	3.9
PROPANE.....	2.6	1.2
N-BUTANE.....	0.3	0.4
ISOBUTANE.....	0.1	0.2
N-PENTANE.....	TRACE	0.1
ISOPENTANE.....	TRACE	0.2
CYCLOPENTANE.....	TRACE	0.1
HEXANES PLUS.....	TRACE	0.1
NITROGEN.....	7.7	0.4
OXYGEN.....	1.9	0.0
ARGON.....	0.1	TRACE
HYDROGEN.....	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0
CARBON DIOXIDE.....	1.5	1.1
HELIUM.....	0.01	0.01
HEATING VALUE*.....	1069	1078
SPECIFIC GRAVITY.....	0.720	0.617

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 3. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES DURING 1980

	INDEX SAMPLE 4 16038	INDEX SAMPLE 5 16039	INDEX SAMPLE 6 16040
COUNTRY.....	BOLIVIA	BOLIVIA	BOLIVIA
STATE OR PROVINCE.....	SANTA CRUZ	SANTA CRUZ	SANTA CRUZ
FIELD.....	TITA	TITA	TITA
WELL NAME.....	TITA NO. 3-UM	TITA NO. 13-T	TITA NO. 7-B
LOCATION.....	ROBORE	ROBORE	ROBORE
OWNER.....	OCCIDENTAL BOLIVIANA, INC.	OCCIDENTAL BOLIVIANA, INC.	OCCIDENTAL BOLIVIANA, INC.
COMPLETED.....	01/30/78	11/06/77	06/16/77
SAMPLED.....	07/24/80	07/24/80	07/24/80
FORMATION.....	CARB-TUPAMBI	CARB-TUPAMBI	CARB-TUPAMBI
DEPTH, FEET.....	6423	6434	6434
WELLHEAD PRESSURE, PSIG..	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	81.6	83.8	81.9
ETHANE.....	7.1	7.2	7.5
PROPANE.....	4.2	4.2	4.6
N-BUTANE.....	1.3	1.3	1.4
ISOBUTANE.....	0.7	0.6	0.8
N-PENTANE.....	0.3	0.3	0.4
ISOPENTANE.....	3.3	0.3	0.3
CYCLOPENTANE.....	0.1	0.1	0.2
HEXANES PLUS.....	0.4	0.3	0.6
NITROGEN.....	3.6	1.9	2.2
OXYGEN.....	0.2	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.1	0.1
HELIUM.....	0.02	0.02	0.01
HEATING VALUE.....	1140	1196	1226
SPECIFIC GRAVITY.....	0.703	0.691	0.713

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 3. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES DURING 1980

	INDEX SAMPLE 7 16041	INDEX SAMPLE 8 16043
COUNTRY.....	BOLIVIA	BOLIVIA
STATE OR PROVINCE.....	SANTA CRUZ	SANTA CRUZ
FIELD.....	TITA	TITA
WELL NAME.....	TITA NO. 6-M	TITA NO. 5-B
LOCATION.....	ROBORE	ROBORE
OWNER.....	OCCIDENTAL BOLIVIANA, INC.	OCCIDENTAL BOLIVIANA, INC.
COMPLETED.....	05/11/77	03/28/77
SAMPLED.....	07/24/80	07/24/80
FORMATION.....	CARB-TUPAMBI	CARB-TUPAMBI
DEPTH, FEET.....	6342	6498
WELLHEAD PRESSURE, PSIG..	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT		
METHANE.....	82.8	80.5
ETHANE.....	7.4	8.4
PROPANE.....	4.5	5.4
N-BUTANE.....	1.4	1.6
ISOBUTANE.....	0.6	0.8
N-PENTANE.....	0.3	0.4
ISOPENTANE.....	0.3	0.3
CYCLOPENTANE.....	0.1	0.1
HEXANES PLUS.....	0.3	0.3
NITROGEN.....	2.2	2.2
OXYGEN.....	0.0	0.0
ARGON.....	TRACE	TRACE
HYDROGEN.....	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1
HELIUM.....	0.01	0.01
HEATING VALUES.....	1200	1236
SPECIFIC GRAVITY.....	0.697	0.720

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 3. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES DURING 1980

	INDEX SAMPLE 16042	INDEX SAMPLE 16036	INDEX SAMPLE 16037
COUNTRY.....	BOLIVIA	BOLIVIA	BOLIVIA
STATE OR PROVINCE.....	SANTA CRUZ	SANTA CRUZ	SANTA CRUZ
FIELD.....	SANTA CRUZ	TITA	TITA
WELL NAME.....	NO. 4-B	TITA NO. 1-T	TITA NO. 12-T
LOCATION.....	ROBORE	ROBORE	ROBORE
OWNER.....	OCCIDENTAL BOLIVIANA, INC.	OCCIDENTAL BOLIVIANA, INC.	OCCIDENTAL BOLIVIANA, INC.
COMPLETED.....	01/26/77	08/17/76	10/14/77
SAMPLED.....	07/24/80	07/24/80	07/24/80
FORMATION.....	CARB-TUPAMBI	CARB-TUPAMBI	CARB-TUPAMBI
DEPTH, FEET.....	5477	6592	6375
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	82.4	83.4	70.0
ETHANE.....	7.3	7.1	6.2
PROPANE.....	4.6	4.3	4.1
N-BUTANE.....	1.6	1.4	1.5
ISOBUTANE.....	0.7	0.6	1.1
N-PENTANE.....	0.4	0.4	0.7
ISOPENTANE.....	0.4	0.4	0.8
CYCLOPENTANE.....	0.1	0.1	0.3
HEXANES PLUS.....	0.3	0.3	1.2
NITROGEN.....	2.2	1.9	11.5
OXYGEN.....	0.0	0.0	2.5
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	0.1
HELIUM.....	0.02	0.03	0.02
HEATING VALUE.....	1216	1204	1151
SPECIFIC GRAVITY.....	0.707	0.695	0.793

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 4. - SAMPLES FROM PIPELINES IN FOREIGN COUNTRIES DURING 1980

	INDEX SAMPLE 16045	INDEX SAMPLE 16044	
COUNTRY.....	AUSTRALIA	AUSTRALIA	
STATE OR PROVINCE.....	VICTORIA	VICTORIA	
FIELD.....	BARRACOUTA	MARLIN	
PLANT NAME.....	PLATFORM GAS	PLATFORM GAS	
LOCATION.....	BASS STRAIT	BASS STRAIT	
OWNER.....	ESSO/BHP	ESSO/BHP	
SAMPLED.....	04/06/80	03/06/80	
FORMATION.....	EOCF-	EOCF-	
PRESSURE, PSIG.....	1510	1850	
FLOW, INCHES.....	260000	410000	
COMPONENT, MOLE PCT			
METHANE.....	95.7	80.7	
ETHANE.....	5.9	7.3	
PROPANE.....	3.0	4.9	
N-BUTANE.....	0.6	1.4	
ISOBUTANE.....	1.3	1.3	
N-PENTANE.....	0.1	0.6	
ISOPENTANE.....	0.5	0.8	
CYCLOPENTANE.....	0.3	0.2	
HEXANES PLUS.....	0.5	0.9	
NITROGEN.....	1.6	0.5	
OXYGEN.....	0.0	0.0	
ARGON.....	0.0	0.0	
HYDROGEN.....	0.0	0.0	
HYDROGEN SULFIDE.....	0.0	0.0	
CARBON DIOXIDE.....	0.5	1.3	
HELIUM.....	TRACE	TRACE	
HEATING VALUE*.....	1178	1280	
SPECIFIC GRAVITY.....	0.663	0.747	

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14764	INDEX SAMPLE 14777	INDEX SAMPLE 14760
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	COOK INLET	COOK INLET	COOK INLET
FIELD.....	COOK INLET BASIN	COOK INLET N	GRANITE POINT
WELL NAME.....	A-8S	NORTH COOK INLET UNIT A-5	GRANITE POINT NO. 20
LOCATION.....	SEC. 4, T9N, R13W	SEC. 6, T11N, R9W	SEC. 31, T11N, R11W
OWNER.....	UNION OIL CO. OF CALIFORNIA	PHILLIPS PETROLEUM CO.	AMOCO PRODUCTION CO.
COMPLETED.....	11/11/67	08/14/69	05/04/68
SAMPLED.....	08/--/76	08/06/76	08/06/76
FORMATION.....	EOCE-TYONEK	EOCE-KENAI	EOCE-TYONEK & HEMLOCK
GEOLOGIC PROVINCE CODE.....	972	972	972
DEPTH, FEET.....	NOT GIVEN	4450	8690
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	1542	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	22230	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	85.1	99.1	67.0
ETHANE.....	3.4	0.1	10.1
PROPANE.....	4.5	0.1	10.3
N-BUTANE.....	1.7	0.0	3.7
ISOBUTANE.....	1.5	0.0	2.3
N-PENTANE.....	0.4	0.0	0.6
ISOPENTANE.....	0.9	0.0	2.1
CYCLOPENTANE.....	0.2	0.0	0.3
HEXANES PLUS.....	0.3	0.0	0.7
NITROGEN.....	1.5	0.6	2.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	0.1	0.3
HELIUM.....	TRACE	TRACE	0.03
HEATING VALUE*.....	1226	1008	1492
SPECIFIC GRAVITY.....	0.712	0.559	0.892

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14758	INDEX SAMPLE 14759	INDEX SAMPLE 14762
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	COOK INLET	COOK INLET	COOK INLET
FIELD.....	MCARTHUR RIVER	MCARTHUR RIVER	MCARTHUR RIVER
WELL NAME.....	K-17	K-30 SHORT	G-14 SHORT
LOCATION.....	SEC. 21, T9N, R13W	SEC. 21, T9N, R13W	SEC. 29, T9N, R13W
OWNER.....	ATLANTIC RICHFIELD CO.	ATLANTIC RICHFIELD CO.	UNION OIL CO. OF CALIFORNIA
COMPLETED.....	--/--/73	04/29/70	10/07/68
SAMPLED.....	08/06/76	08/06/76	08/--/76
FORMATION.....	EDGE-HEMLOCK	EDGE-TYONEK, G	EDGE-TYONEK
GEOLOGIC PROVINCE CODE...	972	972	972
DEPTH, FEET.....	11423	10876	4500
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	70.8	82.3	98.2
ETHANE.....	5.5	4.0	0.1
PROPANE.....	6.2	4.7	TRACE
N-BUTANE.....	2.4	1.8	0.0
ISOBUTANE.....	1.3	1.1	0.0
N-PENTANE.....	0.5	0.4	0.0
ISOPENTANE.....	0.8	0.5	0.0
CYCLOPENTANE.....	0.1	0.1	0.0
HEXANES PLUS.....	0.3	0.2	0.0
NITROGEN.....	10.9	4.9	1.5
OXYGEN.....	1.0	0.0	0.0
ARGON.....	0.1	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	0.1
HELIUM.....	TRACE	0.01	TRACE
HEATING VALUE**.....	1176	1178	997
SPECIFIC GRAVITY.....	0.787	0.710	0.562

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 3. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 7 14776	INDEX SAMPLE 8 14780	INDEX SAMPLE 9 14781
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	COOK INLET	COOK INLET	COOK INLET
FIELD.....	MCARTHUR RIVER	MCARTHUR RIVER	MIDDLE GROUND SHOAL
WELL NAME.....	NO. K-30 LONG	NO. G-33 LONG	NO. 13
LOCATION.....	SEC. 21, 19N, R13W	SEC. 29, 19N, R13W	SEC. 31, 19N, R12W
OWNER.....	ATLANTIC RICHFIELD CO.	UNION OIL CO. OF CALIFORNIA	AMOCO PRODUCTION CO.
COMPLETION.....	04/29/70	03/18/70	01/01/68
SAMPLE NO.....	08/30/76	08/04/76	08/--/76
FORMATION.....	EOCE-KENAI	EOCE-KENAI	EOCE-KENAI
GEOLOGIC PROVINCE CODE.....	972	972	972
DEPTH, FEET.....	12096	10036	8425
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	726	600
COMPONENTS, MOLE PER CENT.....			
METHANE.....	93.1	61.3	64.6
ETHANE.....	4.8	12.1	13.7
PROPANE.....	5.3	10.5	10.9
N-BUTANE.....	2.0	2.7	3.6
ISOBUTANE.....	1.0	1.6	1.8
PENTANE.....	0.4	0.3	0.6
ISOPENTANE.....	0.5	0.7	1.5
CYCLOPENTANE.....	0.1	0.1	0.2
HEXANES, PLUS.....	0.2	0.2	0.4
NITROGEN.....	5.4	10.4	2.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	TRACE
HELIUM.....	0.01	0.01	TRACE
HEATING VALUE**.....	1189	1312	1482
SPECIFIC GRAVITY.....	0.724	0.855	0.878

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	ALASKA	ALASKA	ALASKA	ALASKA
COUNTY.....	COOK INLET	COOK INLET	COOK INLET	COOK INLET
FIELD.....	MIDDLE GROUND SHOAL	NICOLAI CREEK	NICOLAI CREEK	NICOLAI CREEK
WELL NAME.....	NO. 6	NO. 2	NO. 3	NO. 3
LOCATION.....	SEC. 31, 19N, R12W	SEC. 22, 11N, R12W	SEC. 20, 11N, R12W	SEC. 20, 11N, R12W
OWNER.....	AMOCO PRODUCTION CO.	TEXACO INC.	TEXACO INC.	TEXACO INC.
COMPLETED.....	05/01/76	10/24/66	05/04/67	05/04/67
SAMPLED.....	08/--/76	08/--/76	08/--/76	08/--/76
FORMATION.....	EOCE-TYONEK	EOCE-TYONEK	EOCE-BELUGA & TYONEK	EOCE-BELUGA & TYONEK
GEOLOGIC PROVINCE CODE.....	972	972	972	972
DEPTH, FEET.....	5782	3420	1900	1900
WELLHEAD PRESSURE, PSI.....	NOT GIVEN	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT				
METHANE.....	74.9	98.2	98.1	98.1
ETHANE.....	6.1	0.2	0.1	0.1
PROPANE.....	8.0	0.1	0.1	0.1
N-BUTANE.....	3.3	TRACE	0.0	0.0
ISOBUTANE.....	1.8	TRACE	0.0	0.0
N-PENTANE.....	0.7	0.0	0.0	0.0
ISOPENTANE.....	1.3	0.1	0.0	0.0
CYCLOPENTANE.....	0.2	TRACE	0.0	0.0
HEXANES PLUS.....	0.4	TRACE	0.0	0.0
NITROGEN.....	3.0	1.3	1.4	1.4
OXYGEN.....	0.0	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	TRACE	0.2	0.2
HELIUM.....	TRACE	TRACE	TRACE	TRACE
HEATING VALUE**.....	1361	1005	998	998
SPECIFIC GRAVITY.....	0.808	0.563	0.563	0.563

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14765	INDEX SAMPLE 14771	INDEX SAMPLE 14783
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	COOK INLET	KENAI PENINSULA	KENAI PENINSULA
FIELD.....	TRADING BAY NE	KENAI	KENAI
WELL NAME.....	TS-2	NO. 41-7	NO. 34-31
LOCATION.....	SEC. 34, T10N, R13W	SEC. 7, T4N, R11W	SEC. 31, T5N, R11W
OWNER.....	ATLANTIC RICHFIELD CO.	UNION OIL CO. OF CALIFORNIA	UNION OIL CO. OF CALIFORNIA
COMPLETED.....	08/29/68	NOT GIVEN	11/23/59
SAMPLED.....	08/-/-76	08/05/76	08/05/76
FORMATION.....	EOCF-TYONEK & HEMLOCK	EOCF-TYONEK	EOCF-KENAI
GEOLOGIC PROVINCE CODE.....	972	972	972
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	192	2200	1500
OPEN FLOW, MCFD.....		NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	69.5	98.8	98.7
ETHANE.....	5.7	0.3	0.1
PROPANE.....	7.1	0.1	TRACE
N-BUTANE.....	2.3	0.0	0.0
ISOBUTANE.....	2.0	0.0	0.0
N-PENTANE.....	0.5	0.0	0.0
ISOPENTANE.....	0.7	0.0	0.0
CYCLOPENTANE.....	0.1	0.0	0.0
HEXANES PLUS.....	0.3	0.0	0.0
NITROGEN.....	11.6	0.6	1.0
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.2	0.1
HELIUM.....	0.01	TRACE	TRACE
HEATING VALUE*.....	1206	1009	1002
SPECIFIC GRAVITY.....	0.801	0.561	0.559

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14772	INDEX SAMPLE 11554	INDEX SAMPLE 12307
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	KENAI PENINSULA	NORTH SLOPE	NORTH SLOPE
FIELD.....	STERLING	PRUDHOE HAY	PRUDHOE BAY
WELL NAME.....	NO. 43-9	PRUDHOE NO. 1	PRUDHOE BAY STATE NO. 1
LOCATION.....	SEC. 9, T5N, R10W	NORTH SLOPE	SEC. 10, T11N, R14E
OWNER.....	UNION OIL CO. OF CALIFORNIA	ATLANTIC RICHFIELD CO.	ARCO & HUMBLE OIL & REFINING
COMPLETED.....	07/05/63	NOT GIVEN	NOT GIVEN
SAMPLED.....	08/05/76	NOT GIVEN	05/05/70
FORMATION.....	EOCE-STERLING	NOT GIVEN	PERM-SADLEROCBIT
GEOLOGIC PROVINCE CODE...	972	972	972
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	99.3	78.8	78.3
ETHANE.....	0.2	5.2	5.2
PROPANE.....	TRACE	1.8	2.3
N-BUTANE.....	0.0	0.6	0.8
ISOBUTANE.....	0.0	TRACE	0.3
N-PENTANE.....	0.0	TRACE	0.2
ISOPENTANE.....	0.0	0.2	0.1
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	0.1	0.2
NITROGEN.....	1.4	0.8	0.9
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.1	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	12.4	11.7
HELIUM.....	TRACE	0.02	0.02
HEATING VALUE*.....	999	972	1007
SPECIFIC GRAVITY.....	0.562	0.737	0.748

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12308	INDEX SAMPLE 10703	INDEX SAMPLE 13278
STATE.....	ALASKA	ALASKA	ALASKA
COUNTY.....	NORTH SLOPE	NOT GIVEN	NOT GIVEN
FIELD.....	PRUDHOE BAY	EXPLORATORY	NOT GIVEN
WELL NAME.....	SAG RIVER STATE NO. 1	NORTH FORK NO. 41-35	KEMIK NO. 1
LOCATION.....	SEC. 4, T10N, R15E	SEC. 35, T4S, R14W	SEC. 17, T1N, R20E
OWNER.....	ARCO & HUMBLE OIL & REFINING	STANDARD OIL CO. OF CALIF.	FOREST OIL CORP.
COMPLETED.....	NOT GIVEN	12/20/65	NOT GIVEN
SAMPLED.....	04/09/70	01/19/66	06/11/72
FORMATION.....	PERM-SADLEROCHIT	EOCE-KENAI	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	972	8025	972
DEPTH, FEET.....	NOT GIVEN	2813	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	4500	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN		NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	73.7	98.1	96.4
ETHANE.....	7.1	0.3	0.3
PROPANE.....	3.1	0.1	0.1
N-BUTANE.....	0.7	0.0	0.0
ISOBUTANE.....	0.4	0.0	0.0
N-PENTANE.....	0.2	0.0	0.0
ISOPENTANE.....	0.1	0.0	0.0
CYCLOPENTANE.....	0.1	0.0	0.0
HEXANES PLUS.....	0.2	0.0	0.0
NITROGEN.....	0.2	1.2	1.2
OXYGEN.....	TRACE	0.0	0.1
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.1	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	14.1	0.2	2.0
HELIUM.....	0.01	TRACE	0.02
HEATING VALUE**.....	1018	1002	984
SPECIFIC GRAVITY.....	0.788	0.560	0.582

\* CALCULATED GROSS FTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11547	INDEX SAMPLE 11240	INDEX SAMPLE 10898
STATE.....	ALASKA	ARIZONA	ARKANSAS
COUNTY.....	NOT GIVEN	APACHE	FRANKLIN
FIELD.....	PRUDHOE BAY	WILDCAT	LONE ELM
WELL NAME.....	PRUDHOE BAY STATE NO. 1	NAVAJO Z NO. 1	NOEL LEWIS NO. 1
LOCATION.....	NOT GIVEN	SEC. 36, T41N, R30E	SEC. 28, T10N, R28W
OWNER.....	ATLANTIC RICHFIELD	TEXACO INC.	ARKANSAS WESTERN GAS CO.
COMPLETED.....	DRILL STEM TEST NO. 15	NOT GIVEN	11/11/66
SAMPLED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
FORMATION.....	NOT GIVEN	MISS-LEADVILLE	PENN-CASEY & HENSON
GEOLOGIC PROVINCE COU.....	972	590	345
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	3041
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	580
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	4000
COMPONENT, MOLE PCT			
METHANE.....	70.6	14.6	98.2
ETHANF.....	4.8	1.0	1.0
PROPANE.....	2.1	0.4	0.1
N-BUTANE.....	0.9	0.2	0.0
ISOBUTANE.....	0.0	0.2	0.0
N-PENTANE.....	0.0	0.2	0.0
ISOPENTANE.....	0.0	TRACE	0.0
CYCLOPENTANE.....	0.0	TRACE	0.0
HEXANES PLUS.....	0.0	0.2	0.0
NITROGEN.....	9.2	53.1	0.4
OXYGEN.....	2.1	0.0	0.0
ARGON.....	0.2	0.6	0.0
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	10.0	23.5	0.2
HELIUM.....	0.02	5.84	0.11
HEATING VALUES.....	846	20A	1015
SPECIFIC GRAVITY.....	0.761	1.006	0.564

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 10899	INDEX SAMPLE 12121	INDEX SAMPLE 15815
STATE.....	ARKANSAS	ARKANSAS	CALIFORNIA
COUNTY.....	FRANKLIN	JOHNSON	COLUSA
FIELD.....	LOME ELM	SCRANTON	GRIMES SW
WELL NAME.....	NOEL LEWIS NO. 1	YEAGER NO. 1-C	ARBUCKLE ROAD NO. 1
LOCATION.....	SEC. 28, T10N, R28W	SEC. 20, T9N, R24W	SEC. 7, T14W, R1E
OWNER.....	ARKANSAS WESTERN GAS CO.	LEBEN DRILLING, INC.	GAS PRODUCING ENTERPRISES
COMPLETED.....	11/11/66	02/19/69	01/--/79
SAMPLED.....	NOT GIVEN	11/20/69	10/24/79
FORMATION.....	-KELLY	PENN-DUNN B	CRET-FORBES
GEOLOGIC PROVINCE CODE.....	345	345	730
DEPTH, FEET.....	3967	5376	8378
WELLHEAD PRESSURE, PSIG...	1160	1439	5087
OPEN FLOW, MCFD.....	5400	2050	NOT GIVEN
COMPONENT, MOLF PCT			
METHANE.....	95.0	94.5	99.2
ETHANE.....	1.0	1.1	0.2
PROPANE.....	0.1	0.1	TRACE
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	0.5	2.5	0.5
OXYGEN.....	0.0	0.5	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	1.1	0.1
HELIUM.....	0.12	0.06	TRACE
HEATING VALUE.....	1013	980	1008
SPECIFIC GRAVITY.....	0.563	0.584	0.558

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 28 7647	INDEX SAMPLE 29 7449	INDEX SAMPLE 30 11302
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	ORANGE	SAN JOAQUIN	SOLANO
FIELD.....	SUNSET BEACH	STATEN ISLAND	LINDSEY SLOUGH
WELL NAME.....	BOARD OF SUPERVISORS NO. 1	M&T NO. 2	PETERSEN ESTATE NO. 2
LOCATION.....	SEC. 29, T5S, R11W	SEC. 14, T4N, R4E	SEC. 34, T5N, R2E
OWNER.....	GOLDEN WEST OIL CORP.	SUNRAY-BRAZOS-VISTARIO	AMERADA PETROLEUM CORP.
COMPLETED.....	10/21/55	08/10/59	NOT GIVEN
SAMPLED.....	08/12/60	02/14/60	NOT GIVEN
FORMATION.....	MIOC-	PENN-WEWOKA M	-PETERSON
GEOLOGIC PROVINCE CODE.....	760	730	730
DEPTH, FEET.....	7720	4096	9057
WELLHEAD PRESSURE, PSIG.....	1800	1625	NOT GIVEN
OPEN FLOW, %CFD.....	5000	8600	4728
COMPONENT, MOLE PCT			
METHANE.....	71.3	92.5	90.7
ETHANE.....	6.5	0.2	3.9
PROPANE.....	7.6	TRACE	1.3
N-BUTANE.....	4.5	0.0	0.4
ISOBUTANE.....	0.3	TRACE	0.1
N-PENTANE.....	1.4	0.0	0.0
ISOPENTANE.....	2.2	0.0	0.4
CYCLOPENTANE.....	1.7	0.0	0.2
HEXANES PLUS.....	1.6	0.0	0.1
NITROGEN.....	0.0	7.0	2.5
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.2	0.1	0.4
HELIUM.....	TRACE	0.01	0.01
HEATING VALUE*.....	1518	941	1069
SPECIFIC GRAVITY.....	0.906	0.584	0.622

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 3. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11303	INDEX SAMPLE 11471	INDEX SAMPLE 11424
STATE.....	CALIFORNIA	CALIFORNIA	CALIFORNIA
COUNTY.....	SOLANO	SOLANO	SOLANO
FIELD.....	LINDSEY SLOUGH	MILLAR W	RIO VISTA
WELL NAME.....	PETERSEN ESTATE NO. 2	CAMPBELL RANCH NO. 1	EMIGH NO. 12
LOCATION.....	SEC. 34, T5N, R2E	SEC. 4, T6N, R2E	SEC. 27, T4N, R2E
OWNER.....	AMERADA PETROLEUM CORP.	AMERADA PETROLEUM CORP.	AMERADA PETROLEUM CORP.
COMPLETED.....	NOT GIVEN	10/25/68	01/15/68
SAMPLED.....	NOT GIVEN	05/09/68	03/29/68
FORMATION.....	-K-1 ZONE	NOT GIVEN	CRET-MCCORMICK
GEOLOGIC PROVINCE CODE.....	730	730	730
DEPTH, FEET.....	10122	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	2500
OPEN FLOW, MCFD.....	5232	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	86.7	93.1	93.2
ETHANE.....	4.2	1.8	3.4
PROPANE.....	1.4	TRACE	1.0
N-BUTANE.....	0.4	0.0	0.4
ISOBUTANE.....	0.2	0.0	0.0
N-PENTANE.....	0.0	0.0	0.1
ISOPENTANE.....	0.6	0.0	0.1
CYCLOPENTANE.....	0.1	0.0	0.1
HEXANES PLUS.....	0.1	0.0	0.1
NITROGEN.....	5.2	4.9	1.5
OXYGEN.....	0.8	0.0	0.0
ARGON.....	0.1	0.0	0.0
HYDROGEN.....	0.0	0.1	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.1	0.1
HELIUM.....	TRACE	0.01	TRACE
HEATING VALUE*.....	1045	976	1062
SPECIFIC GRAVITY.....	0.643	0.584	0.603

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 34 12145	INDEX SAMPLE 35 14390	INDEX SAMPLE 36 14909
STATE.....	CALIFORNIA	COLORADO	COLORADO
COUNTY.....	YOLO	ADAMS	HUERFANO
FIELD.....	SAXON	THIRD CREEK	SHEEP MOUNTAIN
WELL NAME.....	H&C-GLIDE COLBY NO. 5	STATE-A NO. 5	SHEEP MOUNTAIN UNIT NO. 7-9
LOCATION.....	SEC. 29, T7N, R3E	SEC. 36, T1S, R66W	SEC. 9, T27S, R70W
OWNER.....	SIGNAL OIL & GAS CO.	KOCH EXPLORATION CO.	ATLANTIC RICHFIELD CO.
COMPLETED.....	09/02/69	05/02/74	02/--/76
SAMPLED.....	11/15/69	06/17/75	02/15/77
FORMATION.....	CRET-STARKEY	CRET-DAKOTA J	CRET-DAKOTA
GEOLOGIC PROVINCE CODE...	730	540	455
DEPTH, FEET.....	6260	8178	3380
WELLHEAD PRESSURE, PSIG...	2412	NOT GIVEN	739
OPEN FLOW, MCFD.....	4800	NOT GIVEN	11500
COMPONENT, MOLE PCT			
METHANE.....	77.9	71.3	24.5
ETHANE.....	0.7	15.1	0.6
PROPANE.....	0.2	6.7	TRACE
N-BUTANE.....	0.0	1.6	0.0
ISOBUTANE.....	0.0	0.8	0.0
N-PENTANE.....	0.0	0.4	0.0
ISOPENTANE.....	0.0	0.4	0.0
CYCLOPENTANE.....	0.0	0.1	0.0
HEXANES PLUS.....	0.0	0.3	0.0
NITROGEN.....	19.9	1.2	10.9
OXYGEN.....	1.1	TRACE	0.2
ARGON.....	0.1	0.0	0.3
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	2.0	62.9
HELIUM.....	0.01	0.02	0.54
HEATING VALUE**.....	807	1301	259
SPECIFIC GRAVITY.....	0.650	0.781	1.216

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14962	INDEX SAMPLE 14397	INDEX SAMPLE 10700
STATE.....	COLORADO	COLORADO	COLORADO
COUNTY.....	HUFFMAN	MOFFAT	MOFFAT
FIELD.....	SHEEP MOUNTAIN	BELL ROCK	CRAIG DOME
WELL NAME.....	SHEEP MOUNTAIN UNIT NO. 7	FEDERAL-DOLEZAL NO. 4-1	CRAIG DOME NO. 1
LOCATION.....	SEC. 9, T27S, R70W	SEC. 4, T6N, R92W	SEC. 9, T6N, R91W
OWNER.....	ATLANTIC RICHFIELD CO.	FUELCO	VAUGHN PETROLEUM INC.
COMPLETION.....	02/-/-76	NOT GIVEN	06/16/66
SAMPLED.....	04/07/77	06/18/75	08/24/66
FORMATION.....	CRFT-DAKOTA	NOT GIVEN	CRET-FRONTIER
GEOLOGIC PROVINCE CODE.....	455	535	535
DEPTH, FEET.....	3380	NOT GIVEN	7466
WELLHEAD PRESSURE, PSIG.....	640	NOT GIVEN	2890
OPEN FLOW, MCFD.....	11500	NOT GIVEN	1148
COMPONENT, MOLF PCT			
METHANE.....	17.6	98.0	91.6
ETHANE.....	0.5	0.3	2.6
PROPANE.....	0.0	0.1	0.8
N-BUTANE.....	0.0	0.0	0.2
ISOBUTANE.....	0.0	0.0	0.1
N-PENTANE.....	0.0	0.0	0.2
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.1
HEXANES PLUS.....	0.0	0.0	0.2
NITROGEN.....	6.5	1.2	3.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.2	TRACE	0.0
HYDROGEN.....	TRACE	0.1	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	74.8	0.4	0.8
HELIUM.....	0.41	0.04	0.07
HEATING VALUE.....	187	1001	1028
SPECIFIC GRAVITY.....	1.313	0.566	0.610

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11610	INDEX SAMPLE 41 15106	INDEX SAMPLE 42 12716
STATE.....	COLORADO	COLORADO	KANSAS
COUNTY.....	MOFFAT	SAN MIGUEL	BARBER
FIELD.....	UNNAMED	ANDY'S MESA	BLUNK
WELL NAME.....	COLORADO FEDERAL C NO. 1	ANDY'S MESA UNIT NO. 10	BLUNK NO. 1
LOCATION.....	SEC. 22, T10N, R94W	SEC. 28, T44N, R16W	SEC. 25, T34S, R14W
OWNER.....	SKELLY OIL CO.	UNION OIL CO. OF CALIFORNIA	IMPERIAL OIL CO.
COMPLETED.....	02/24/68	07/26/77	12/07/71
SAMPLED.....	07/31/68	09/20/77	03/08/71
FORMATION.....	CRET-LEWIS	-LA SAL	MISS-
GEOLOGIC PROVINCE CODE.....	535	585	375
DEPTH, FEET.....	7536	7692	4695
WELLHEAD PRESSURE, PSIG.....	2625	1950	1200
OPEN FLOW, MCFD.....	1100	2450	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	86.9	91.8	87.6
ETHANE.....	6.8	1.8	5.0
PROPANE.....	3.3	0.4	2.0
N-BUTANE.....	0.9	0.2	0.7
ISOBUTANE.....	0.5	0.1	0.3
N-PENTANE.....	0.1	0.1	0.2
ISOPENTANE.....	0.3	0.1	0.3
CYCLOPENTANE.....	0.1	TRACE	0.3
HEXANES PLUS.....	0.2	0.1	0.5
NITROGEN.....	0.7	5.0	2.9
OXYGEN.....	0.0	0.2	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.1	0.1
HELIUM.....	0.01	0.07	0.12
HEATING VALUE.....	1166	996	1121
SPECIFIC GRAVITY.....	0.662	0.600	0.654

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 43 14566	INDEX SAMPLE 44 13841	INDEX SAMPLE 45 13842
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	HARBER	BARBER	BARBER
FIELD.....	LITTLE SANDY CREEK	MEAIRS	MEAIRS
WELL NAME.....	HARHAUGH NO. 1	KUMBERG"B"NO.1	KUMBERG"A"NO.1
LOCATION.....	SEC. 36, T32S, R10W	SEC. 14, T30S, R12W	SEC. 15, T30S, R12W
OWNER.....	OIL PROPERTY MANAGEMENT, INC	GLEN N. RUPE	GLEN N. RUPE
COMPLETED.....	10/30/75	06/22/73	06/19/73
SAMPLED.....	01/23/76	11/28/73	11/28/73
FORMATION.....	MISS-	PENN--TARKIO	PENN-HOWARD
GEOLOGIC PROVINCE CODE.....	375	375	375
DEPTH, FEET.....	4288	3436	3146
WELLHEAD PRESSURE, PSIG.....	1329	1030	1120
OPEN FLOW, MCFD.....	4599	4177	3568
COMPONENT, MOLE PCT			
METHANE.....	AA.1	88.7	96.0
ETHANE.....	5.3	3.8	4.2
PROPANE.....	2.3	1.6	1.8
N-BUTANE.....	0.6	0.4	0.6
ISOBUTANE.....	0.4	0.3	0.3
N-PENTANE.....	0.2	0.1	0.1
ISOPENTANE.....	0.1	0.2	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	2.6	4.5	6.1
OXYGEN.....	0.0	0.0	0.1
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	0.2
HELIUM.....	0.11	0.18	0.23
HEATING VALUE.....	1099	1050	1041
SPECIFIC GRAVITY.....	0.638	0.625	0.641

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 46 10720	INDEX SAMPLE 47 11763	INDEX SAMPLE 48 15692
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	BARBER	CHAUTAUQUA	CHAUTAUQUA
FIELD.....	MILLS S	ELGIN E	OLIVER
WELL NAME.....	F. SPICER GAS UNIT NO. 1	ALLEN NO. 1	ROGERS B NO. 1
LOCATION.....	SEC. 34, T30S, R12W	SEC. 7, T35S, R1E	SEC. 2, T32S, R10E
OWNER.....	CONTINENTAL OIL CO.	WYATT PETROLEUM CORP.	RAM OIL CO.
COMPLETED.....	06/10/66	10/21/67	06/--/78
SAMPLED.....	09/14/66	02/17/69	07/05/79
FORMATION.....	PENN-DOUGLAS	MISS-CHAT	MISS-
GEOLOGIC PROVINCE CODE.....	375	365	365
DEPTH, FEET.....	3568	1882	2000
WELLHEAD PRESSURE, PSIG.....	1265	660	600
OPEN FLOW, MCFD.....	1250	3000	2200
COMPONENT, MOLE PCT			
METHANE.....	88.6	92.5	82.5
ETHANE.....	4.2	0.9	1.3
PROPANE.....	1.7	0.1	0.5
N-BUTANE.....	0.5	0.0	0.3
ISOBUTANE.....	0.3	0.0	0.2
N-PENTANE.....	0.2	0.0	0.1
ISOPENTANE.....	0.0	0.0	0.1
CYCLOPENTANE.....	0.1	0.0	0.1
HEXANES PLUS.....	0.2	0.0	0.1
NITROGEN.....	4.2	4.2	12.3
OXYGEN.....	0.0	0.1	0.1
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	0.0	0.1	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	TRACE
CARBON DIOXIDE.....	TRACE	1.9	0.0
HELIUM.....	0.20	0.30	1.2
HEATING VALUE*.....	1067	956	1.24
SPECIFIC GRAVITY.....	0.630	0.595	0.641

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 49 13144	INDEX SAMPLE 50 15683	INDEX SAMPLE 51 12759
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	COWLEY	COWLEY	EDWARDS
FIELD.....	LAYT	POSEY	ENLOW
WELL NAME.....	WALKER NO. 1	LINK-RICHARDSON NO. 2	SMITH NO. 1
LOCATION.....	SEC. 18, T32S, R8E	NOT GIVEN	SEC. 8, T24S, R16W
OWNER.....	BRUCE D. BENSON	PETROLEUM ENTERPRISES	IMPERIAL OIL CO.
COMPLETED.....	10/20/71	06/16/79	NOT GIVEN
SAMPLED.....	02/10/72	06/28/79	04/10/71
FORMATION.....	PENNY-LAYTON	PERM-ADMIRE	MISS-
GEOLOGIC PROVINCE CODE...	370	370	360
DEPTH, FEET.....	1950	676	NOT GIVEN
WELLHEAD PRESSURE, PSIG...	400	230	1250
OPEN FLOW, MCFD.....	12000	1500	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	54.2	78.2	88.7
ETHANE.....	3.9	4.8	3.6
PROPANE.....	2.5	2.3	1.5
N-BUTANE.....	0.5	0.7	0.5
ISOBUTANE.....	0.3	0.4	0.2
N-PENTANE.....	0.1	0.2	0.2
ISOPENTANE.....	0.1	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	TRACE	0.1	0.2
NITROGEN.....	37.3	12.8	4.7
OXYGEN.....	0.1	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	TRACE
HELIUM.....	0.47	0.38	0.45
HEATING VALUE.....	719	993	1052
SPECIFIC GRAVITY.....	0.767	0.679	0.629

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 15234	INDEX SAMPLE 11624	INDEX SAMPLE 15684
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	EDWARDS	EDWARDS	ELK
FIELD.....	MULL	NOT GIVEN	LOGSDON
WELL NAME.....	MULL NO. 2	TITUS NO. 1	TODD NO. 2
LOCATION.....	SEC. 33, T26S, R17W	SEC. 4, T26S, R19W	SEC. 28, T31S, R9E
OWNER.....	IMPERIAL OIL CO.	GLEN N. RUPE	PETROLEUM ENTERPRISES
COMPLETED.....	04/23/77	06/26/68	10/17/78
SAMPLED.....	02/10/78	08/15/68	06/28/79
FORMATION.....	PENN-CHEROKEE	MISS-	PENN-CLEVELAND
GEOLOGIC PROVINCE CODE...	360	360	365
DEPTH, FEET.....	4545	4730	1766
WELLHEAD PRESSURE, PSIG...	1320	1250	600
OPEN FLOW, MCFD.....	2777	1300	4000
COMPONENT, MOLE PCT			
METHANE.....	90.6	65.2	55.9
ETHANE.....	3.3	4.7	5.9
PROPANE.....	1.4	1.9	3.8
N-BUTANE.....	0.5	0.7	1.1
ISOBUTANE.....	0.2	0.3	0.6
N-PENTANE.....	0.2	0.3	0.3
ISOPENTANE.....	0.2	TRACE	0.2
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.2	0.3	0.2
NITROGEN.....	2.9	24.2	30.7
OXYGEN.....	TRACE	0.1	0.1
ARGON.....	TRACE	0.1	TRACE
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.3	0.1
HELIUM.....	0.28	1.97	1.15
HEATING VALUE*.....	1064	860	859
SPECIFIC GRAVITY.....	0.618	0.724	0.786

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 55 10A24	INDEX SAMPLE 56 14631	INDEX SAMPLE 57 14990
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	GRANT	GREELEY	HASKELL
FIELD.....	HUGOTON	BRADSHAW N	PANOMA
WELL NAME.....	KERMEYER ESTATE NO. 2	ROE NO. 1	ENGLER NO. B-1
LOCATION.....	SEC. 24, T29S, R37W	SEC. 29, T17S, R40W	SEC. 22, T27S, R34W
OWNER.....	ASHLAND OIL & REFINING CO.	R.C. BANKS	CITIES SERVICE OIL CO.
COMPLETED.....	09/17/66	09/24/75	NOT GIVEN
SAMPLED.....	12/16/66	04/02/76	05/06/77
FORMATION.....	PERM-CHASE GROUP	PENN-CHASE	PERM-COUNCIL GROVE
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	2690	2937	2971
WELLHEAD PRESSURE, PSIG.....	343	NOT GIVEN	269
OPEN FLOW, MCFD.....	38000	2150	1000
COMPONENT, MOLE PCT			
METHANE.....	73.0	44.4	70.5
ETHANE.....	6.3	4.3	5.8
PROPANE.....	3.8	2.9	3.1
N-BUTANE.....	1.0	0.9	0.9
ISOBUTANE.....	0.3	0.4	0.2
N-PENTANE.....	0.2	0.1	0.2
ISOPENTANE.....	0.2	0.3	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	14.6	45.4	18.3
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	0.1	0.1
HYDROGEN.....	0.0	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.0	0.1	TRACE
HELIUM.....	0.41	0.95	0.48
HEATING VALUE*.....	1017	668	958
SPECIFIC GRAVITY.....	0.712	0.820	0.715

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14155	INDEX SAMPLE 15257	INDEX SAMPLE 15093
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	KINGMAN	KIOWA	MEADE
FIELD.....	FANNIE	WELLSFORD NE	NOT GIVEN
WELL NAME.....	PRICE NO. 1	GRYMM NO. 1	CROOKED L. RANCH NO. 1
LOCATION.....	SEC. 4, T30S, R10W	SEC. 2, T28S, R16W	SEC. 21, T32S, R28W
OWNER.....	WALLONEE MAHONEY, INC.	IMPERIAL OIL CO.	IMPERIAL OIL CO.
COMPLETED.....	05/07/74	07/18/77	05/11/77
SAMPLED.....	09/--/74	04/--/78	09/--/77
FORMATION.....	MISS-	PENN-CHEROKEE	PENN-ATOKA
GEOLOGIC PROVINCE CODE...	375	360	360
DEPTH, FEET.....	4395	4635	5427
WELLHEAD PRESSURE, PSIG...	1443	1370	1550
OPEN FLOW, MCFD.....	5200	4550	5173
COMPONENT, MOLE PCT			
METHANE.....	82.3	87.0	69.2
ETHANE.....	6.6	4.3	5.7
PROPANE.....	3.6	2.0	5.5
N-BUTANE.....	0.9	0.5	2.1
ISOBUTANE.....	0.5	0.3	1.2
N-PENTANE.....	0.2	0.2	0.9
ISOPENTANE.....	0.2	0.1	0.7
CYCLOPENTANE.....	TRACE	TRACE	0.2
HEXANES PLUS.....	0.1	0.1	0.7
NITROGEN.....	5.2	4.8	13.3
OXYGEN.....	TRACE	0.1	0.3
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.1
HELIUM.....	0.27	0.36	0.22
HEATING VALUE.....	1115	1055	1169
SPECIFIC GRAVITY.....	0.676	0.635	0.797

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 61 7906	INDEX SAMPLE 62 12857	INDEX SAMPLE 63 7931
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	MORTON	MORTON	MORTON
FIELD.....	GREENWOOD	HUGOTON	PANOMA
WELL NAME.....	FULKERSON NO. B-1	BECKER E-1	BREEDING C
LOCATION.....	SEC. 6, T35S, R41W	SEC. 24, T34S, R41W	SEC. 19, T31S, R39W
OWNER.....	CITIES SERVICE OIL CO.	CITIES SERVICE OIL CO.	PAN AMERICAN PETROLEUM CORP.
COMPLETED.....	11/16/60	NOT GIVEN	10/24/60
SAMPLED.....	03/20/61	06/23/71	04/17/61
FORMATION.....	PENN-TOPEKA	PERM-CHASE GROUP	PERM-COUNCIL GROVE
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	3186	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG...	396	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	21000	NOT GIVEN	547
COMPONENT, MOLE PCT			
METHANE.....	65.5	74.0	67.6
ETHANE.....	6.8	6.0	6.6
PROPANE.....	3.8	3.2	3.3
N-BUTANE.....	1.1	1.6	1.0
ISOBUTANE.....	0.5	0.0	0.6
N-PENTANE.....	0.3	0.1	0.2
ISOPENTANE.....	0.2	0.6	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	20.9	13.9	19.4
OXYGEN.....	0.0	0.0	0.1
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.2
HELIUM.....	0.60	0.39	0.50
HEATING VALUE.....	964	1029	965
SPECIFIC GRAVITY.....	0.747	0.713	0.738

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 64 14494	INDEX SAMPLE 65 14550	INDEX SAMPLE 66 12903
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	PRATT	RUSH	SEWARD
FIELD.....	CHITWOOD	DYER	HUGOTON
WELL NAME.....	CHITWOOD NO. S-1.	DYER NO. 1	GRIFFITH NO. 1
LOCATION.....	SEC. 23, T28S, R12W	SEC. 12, T19S, R16W	SEC. 19, T32S, R33W
OWNER.....	RAYMOND OIL CO., INC.	ICER ADDIS	CABOT CORP.
COMPLETED.....	05/02/75	NOT GIVEN	NOT GIVEN
SAMPLED.....	10/10/75	12/--/75	07/20/71
FORMATION.....	PERM-INDIAN CAVE	NOT GIVEN	PERM-CHASE GROUP
GEOLOGIC PROVINCE CODE.....	385	385	360
DEPTH, FEET.....	2646	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	880	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	3300	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	83.0	81.4	74.2
ETHANE.....	3.2	4.0	5.8
PROPANE.....	1.4	1.7	3.4
N-BUTANE.....	0.3	0.5	1.0
ISOBUTANE.....	0.2	0.3	0.4
N-PENTANE.....	TRACE	0.1	0.3
ISOPENTANE.....	0.1	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	0.1	0.2
NITROGEN.....	10.8	10.1	14.1
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.1	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.1	0.0
HELIUM.....	0.43	1.54	0.44
HEATING VALUE*.....	956	980	1018
SPECIFIC GRAVITY.....	0.638	0.646	0.707

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 3. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 15601	INDEX SAMPLE 15631	INDEX SAMPLE 15632
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	STAFFORD	STAFFORD	STAFFORD
FIELD.....	WITZ	KNOCHE	KNOCHE
WELL NAME.....	KOHRS UNIT NO. 1	VIRGIL KNOCHE NO. 1	VERLE KNOCHE NO. 1
LOCATION.....	SEC. 4, T24S, R12W	SEC. 5, T24S, R12W	SEC. 5, T24S, R12W
OWNER.....	WARREN-AMERICAN OIL CO.	DONALD D. ASH	DONALD D. ASH
COMPLETED.....	11/05/78	NOT GIVEN	NOT GIVEN
SAMPLED.....	04/22/79	06/05/79	06/05/79
FORMATION.....	OKO-VIOLA	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	385	385	385
DEPTH, FEET.....	3415	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	340	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLT. PCT			
METHANE.....	59.7	65.4	65.6
ETHANE.....	4.1	4.5	4.5
PROPANE.....	3.3	3.8	3.8
N-BUTANE.....	1.0	1.3	1.2
ISOBUTANE.....	0.4	0.6	0.6
N-PENTANE.....	0.2	0.3	0.3
ISOPENTANE.....	0.1	0.2	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	29.6	22.3	22.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.1	0.1	0.1
HYDROGEN.....	0.0	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.1	TRACE
HELIUM.....	1.22	1.26	1.24
HEATING VALUE*.....	829	932	931
SPECIFIC GRAVITY.....	0.754	0.744	0.742

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 70 11641	INDEX SAMPLE 71 11642	INDEX SAMPLE 72 11643
STATE.....	KENTUCKY	KENTUCKY	KENTUCKY
COUNTY.....	GARRARD CO	GARRARD CO	GARRARD CO
FIELD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELL NAME.....	LEONARD KIRBY NO. 1	LEONARD KIRBY NO. 1	LEONARD KIRBY NO. 1
LOCATION.....	CARTER COORDINATES 8-0-59	CARTER COORDINATES 8-0-59	CARTER COORDINATES 8-0-59
OWNER.....	TEXACO INC.	TEXACO INC.	TEXACO INC.
COMPLETED.....	10/29/68	10/29/68	10/29/68
SAMPLED.....	09/--/68	09/--/68	09/--/68
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	300	300	300
DEPTH, FEET.....	4546	4546	4546
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	14.1	14.1	13.6
ETHANE.....	2.0	2.0	2.2
PROPANE.....	0.5	0.6	0.7
N-BUTANE.....	0.4	0.3	0.3
ISOBUTANE.....	0.0	0.0	TRACE
N-PENTANE.....	0.2	0.3	0.2
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.2	0.2
NITROGEN.....	80.3	80.0	80.9
OXYGEN.....	0.1	0.1	0.1
ARGON.....	0.4	0.4	0.5
HYDROGEN.....	0.1	0.1	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	0.1
HELIUM.....	1.59	1.92	1.24
HEATING VALUE*.....	228	228	224
SPECIFIC GRAVITY.....	0.916	0.911	0.920

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11644	INDEX SAMPLE 14031	INDEX SAMPLE 75 15595
STATE.....	KENTUCKY	KENTUCKY	LOUISIANA
COUNTY.....	GARRARD CO	LESLIE	ASSUMPTION
FIELD.....	NOT GIVEN	LESLIE COUNTY	GRAVEYARD ISLAND
WELL NAME.....	LEONARD KIRBY NO. 1	C.A. DIXON NO. 2	MICHEL NO. 1
LOCATION.....	CARTER COORDINATES 8-0-59	CARTER COORDINATE 2-H-73	SEC. 12, T14S, R12E
OWNER.....	TEXACO INC.	WISER OIL CO.	TEXAS CRUDE, INC.
COMPLETED.....	10/29/68	06/10/72	11/20/78
SAMPLED.....	09/--/68	06/26/74	04/02/79
FORMATION.....	NOT GIVEN	MISS-OIG LIME	NOT GIVEN
GEOLOGIC PROVINCE CODE...	300	160	220
DEPTH, FEET.....	4374	2208	7678
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	425	1250
OPEN FLOW, MCFD.....	NOT GIVEN	5603	7
COMPONENT, MOLE PCT			
METHANE.....	14.5	81.1	88.6
ETHANE.....	2.2	10.4	4.5
PROPANE.....	0.6	3.9	2.1
N-BUTANE.....	0.3	0.8	1.0
ISOBUTANE.....	0.0	0.3	1.5
N-PENTANE.....	0.4	0.1	0.4
ISOPENTANE.....	0.0	0.2	0.5
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.2	0.1	0.5
NITROGEN.....	79.3	2.5	0.4
OXYGEN.....	0.1	TRACE	0.0
ARGON.....	0.4	TRACE	0.0
HYDROGEN.....	0.1	0.4	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	0.4
HELIUM.....	1.81	0.15	TRACE
HEATING VALUE*.....	240	1165	1185
SPECIFIC GRAVITY.....	0.911	0.677	0.673

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 15534	INDEX SAMPLE 11528	INDEX SAMPLE 13806
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	CALCASIEU	CALCASIEU	CAMERON
FIELD.....	BECKWITH CREEK	MANCHESTER S	BLUE BUCK POINT
WELL NAME.....	LC NAVAL STORE NO. 1	FARMERS LAND & CANAL NO A-4	NOBLE-CRAIN NO. 2
LOCATION.....	SEC. 17, T8S, R9W	SEC. 27, T10S, R7W	T15S, R16W
OWNER.....	TEXAS PACIFIC OIL CO., INC.	COASTAL STATES GAS PROD. CO	TEXAS CRUDE, INC.
COMPLETED.....	NOT GIVEN	09/09/66	08/04/73
SAMPLED.....	12/07/78	NOT GIVEN	11/10/73
FORMATION.....	OLIG-NODOSARIO	OLIG-HACKBERRY	MIOC-8400 FT. SAND
GEOLOGIC PROVINCE CODE..	220	220	220
DEPTH, FEET.....	8730	12886	8435
WELLHEAD PRESSURE, PSIG..	3725	7900	3100
OPEN FLOW, MCFD.....	20	8600	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	80.4	87.7	94.1
ETHANE.....	8.5	6.9	3.4
PROPANE.....	5.1	2.3	0.7
N-BUTANE.....	1.6	0.6	0.1
ISOBUTANE.....	1.7	0.4	0.2
N-PENTANE.....	0.4	0.2	TRACE
ISOPENTANE.....	0.8	0.2	TRACE
CYCLOPENTANE.....	0.2	0.1	TRACE
HEXANES PLUS.....	0.5	0.1	0.1
NITROGEN.....	0.3	0.3	1.1
OXYGEN.....	0.0	0.1	0.1
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.1	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	1.0	0.1
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE**.....	1295	1131	1048
SPECIFIC GRAVITY.....	0.741	0.650	0.591

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 15601	INDEX SAMPLE 10039	INDEX SAMPLE 15115
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	DESOTO	LAFAYETTE	LAFAYETTE
FIELD.....	KINGSTON	CADE	LAFOURCHE
WELL NAME.....	JOE E. MORAN NO. 1	BROUSSARD PLANT, INC. NO. 1	D. V. DOUSSEN O&PLNTG NO. 1
LOCATION.....	SEC. 15, T14N, R13W	SEC. 3, T11S, YOUNGSVILLE E	SEC. 100, T17S, R20E
OWNER.....	ENERGY RESERVES GROUP, INC.	SUPERIOR OIL CO.	SUPERIOR OIL CO.
COMPLETED.....	12/13/77	08/19/64	07/27/76
SAMPLED.....	09/20/79	08/04/65	09/07/77
FORMATION.....	JURA-COTTON VALLEY	OLIG-MARTEX	MIOC-
GEOLOGIC PROVINCE CODE.....	230	220	220
DEPTH, FEET.....	9250	15155	12338
WELLHEAD PRESSURE, PSIG.....	3370	7725	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	2014
COMPONENT, MOLE PCT			
METHANE.....	89.6	93.7	96.1
ETHANE.....	5.3	3.0	1.4
PROPANE.....	1.5	1.3	0.5
N-BUTANE.....	0.4	0.3	0.2
ISOBUTANE.....	0.4	0.2	0.2
N-PENTANE.....	0.2	0.1	0.1
ISOPENTANE.....	0.2	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.1
NITROGEN.....	0.1	0.2	0.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.1	1.0	0.7
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE.....	1096	1067	1039
SPECIFIC GRAVITY.....	0.641	0.607	0.588

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 82 14158	INDEX SAMPLE 83 14676	INDEX SAMPLE 84 12843
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	LINCOLN	OUACHITA	PLAQUEMINES
FIELD.....	RUSTIN	DREW S	CROOKED BAYOU
WELL NAME.....	PAUL E. BLACKMOND NO. 1	MONROE SP. & GRAVEL NO. 1	STATE-SMITH NO. 1
LOCATION.....	SEC. 1, T18N, R2W	SEC. 6, T17N, R3E	SEC. 33, T15S, R15E
OWNER.....	CONSOLIDATED GAS SUPPLY CORP	JUSTISS-NEARS OIL CO., INC.	JONES-O'BRIEN INC.
COMPLETED.....	07/06/73	10/06/75	11/--/70
SAMPLED.....	10/24/74	05/11/76	05/29/71
FORMATION.....	JURA-HODCAW	JURA-COTTON VALLEY	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	230	230	22U
DEPTH, FEET.....	9320	9551	8507
WELLHEAD PRESSURE, PSIG.....	3000	3150	3200
OPEN FLOW, MCFD.....	6000	1960	1550
COMPONENT, MOLE PCT			
METHANE.....	86.9	79.2	95.3
ETHANE.....	5.3	6.1	1.8
PROPANE.....	1.9	3.0	0.8
N-BUTANE.....	0.5	0.7	0.2
ISOBUTANE.....	0.5	0.6	0.4
N-PENTANE.....	0.1	0.2	0.2
ISOPENTANE.....	0.2	0.3	TRACE
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.2	0.3	0.2
NITROGEN.....	1.2	1.1	0.8
OXYGEN.....	0.2	TRACE	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.9	6.4	0.2
HELIUM.....	0.02	0.02	TRACE
HEATING VALUE*.....	10.81	1110	1061
SPECIFIC GRAVITY.....	0.659	0.730	0.596

\* CALCULATED: GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13R17	INDEX SAMPLE 86 15246	INDEX SAMPLE 87 15553
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	PLAQUEMINES	POINTE COUPEE	POINTE COUPEE
FIELD.....	WEST DELTA BLOCK 55	FALSE RIVER	JUDGE DIGBY
WELL NAME.....	SL 2549 NO. 11	ALMA PLANTATION NO. 1	W. C. PARLANGE NO. 2
LOCATION.....	OFFSHORE	SEC. 87, T6S, R1E	SEC. 49, T5S, R9E
OWNER.....	CONTINENTAL OIL CO.	CHEVRON U.S.A., INC.	CHEVRON U.S.A. INC.
COMPLETED.....	12/14/72	06/04/75	06/02/78
SAMPLED.....	11/17/73	03/29/78	01/11/79
FORMATION.....	MIOC-	CRET-TUSCALOOSA	CRET-TUSCALOOSA
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	3202	19800	20268
WELLHEAD PRESSURE*PSIG...	1275	13100	11620
OPEN FLOW MCFD.....	500	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	99.0	90.6	90.2
ETHANE.....	0.1	1.8	1.7
PROPANE.....	0.1	0.2	0.3
N-BUTANE.....	0.0	0.1	0.1
ISOBUTANE.....	0.1	0.1	0.1
N-PENTANE.....	TRACE	0.1	TRACE
ISOPENTANE.....	0.1	TRACE	TRACE
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.4	0.5	0.3
OXYGEN.....	0.0	0.1	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	6.3	7.2
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE.....	1020	975	964
SPECIFIC GRAVITY.....	0.563	0.639	0.643

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13766	INDEX SAMPLE 14374	INDEX SAMPLE 14395
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST MARY	ST. JAMES	ST. MARY
FIELD.....	EUGENE ISLAND BLK. 314	BAYOU CITAMON	BALDWIN
WELL NAME.....	EUGENE ISLAND 314 NO. F-4	BOWIE LUMBER CO. NO. 1	J. R. HEINEN NO. 1
LOCATION.....	OFFSHORE	SEC. 18, T13S, R17E	SEC. 13, T14S, R9E
OWNER.....	FOREST OIL CORP.	UNION TEXAS PETROLEUM DIV.	SUN OIL CO.
COMPLETED.....	05/03/72	11/19/74	NOT GIVEN
SAMPLED.....	09/15/73	05/22/75	06/20/75
FORMATION.....	PLEI-R.C. SAND	MIOC-WA3	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	2416	11450	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	900	6900	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	99.6	95.1	93.2
ETHANE.....	TRACE	2.5	3.3
PROPANE.....	TRACE	0.6	1.0
N-BUTANE.....	0.0	0.1	0.2
ISOBUTANE.....	0.0	0.3	0.3
N-PENTANE.....	0.0	TRACE	0.1
ISOPENTANE.....	0.0	0.2	0.1
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	0.1	0.1
NITROGEN.....	0.3	0.5	0.8
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.4	1.0
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1009	1051	1060
SPECIFIC GRAVITY.....	0.557	0.590	0.608

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 91 13765	INDEX SAMPLE 92 13767	INDEX SAMPLE 93 13768
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST. MARY	ST. MARY	ST. MARY
FIELD.....	EUGENE ISLAND BLK 273	EUGENE ISLAND BLK. 273	EUGENE ISLAND BLK. 273
WELL NAME.....	EUGENE ISLAND 273 NO. A-1	EUGENE ISLAND 273 NO. A-9	EUGENE ISLAND 273 NO. A-7
LOCATION.....	OFFSHORE	OFFSHORE	OFFSHORE
OWNER.....	FOREST OIL CORP.	FOREST OIL CORP.	FOREST OIL CORP.
COMPLETED.....	08/31/70	09/01/70	06/11/70
SAMPLED.....	09/15/73	09/15/73	09/15/73
FORMATION.....	PLEI-3500 FT. SAND	PLEI-4600 FT. SAND	PLEI-3100 FT. SAND
DEPTH, FEET.....	220	220	220
GEOLOGIC PROVINCE CODE...	4982	4712	3219
WELLHEAD PRESSURE, PSIG...	1340	1860	1300
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	99.6	98.3	99.6
ETHANE.....	0.1	1.0	0.2
PROpane.....	TRACE	0.3	0.0
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	0.3	0.3	0.1
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.1
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1011	1021	1013
SPECIFIC GRAVITY.....	0.558	0.565	0.557

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13771	INDEX SAMPLE 13773	INDEX SAMPLE 13775
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST. MARY	ST. MARY	ST. MARY
FIELD.....	EUGENE ISLAND BLK. 273	EUGENE ISLAND BLK. 273	EUGENE ISLAND BLK. 273
WELL NAME.....	EUGENE ISLAND 273 NO. A-5	EUGENE ISLAND 273 NO. A-3	EUGENE ISLAND 273 NO. A-2
LOCATION.....	OFFSHORE	OFFSHORE	OFFSHORE
OWNER.....	FOREST OIL CORP.	FOREST OIL CORP.	FOREST OIL CORP.
COMPLETED.....	08/26/70	08/23/70	04/27/70
SAMPLED.....	09/15/73	09/15/73	09/15/73
FORMATION.....	PLEI-4500 FT. SAND	PLEI-4900" SAND	PLEI-4000 FT. SAND
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	4746	4982	4130
WELLHEAD PRESSURE, PSIG...	1650	1620	1620
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	99.1	97.1	99.2
ETHANE.....	0.5	1.6	0.2
PROPANE.....	0.1	0.6	TRACE
N-BUTANE.....	0.0	TRACE	0.0
ISOBUTANE.....	0.0	0.1	0.0
N-PENTANE.....	0.0	TRACE	0.0
ISOPENTANE.....	0.0	TRACE	0.0
CYCLOPENTANE.....	0.0	TRACE	0.0
HEXANES PLUS.....	0.0	TRACE	0.0
NITROGEN.....	0.3	0.3	0.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.2	0.1
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1015	1031	1008
SPECIFIC GRAVITY.....	0.561	0.572	0.558

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13774	INDEX SAMPLE 13769	INDEX SAMPLE 13772
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST. MARY	ST. MARY	ST. MARY
FIELD.....	EUGENE ISLAND BLK. 287	EUGENE ISLAND BLK. 292	EUGENE ISLAND BLK. 292
WELL NAME.....	EUGENE ISLAND 287 NO. D-2	EUGENE ISLAND 292 NO. 85-D	EUGENE ISLAND 292 NO. B1-D
LOCATION.....	OFFSHORE	OFFSHORE	OFFSHORE
OWNER.....	FOREST OIL CORP.	FOREST OIL CORP.	FOREST OIL CORP.
COMPLETED.....	04/05/71	12/31/69	01/16/70
SAMPLED.....	09/14/73	09/14/73	09/14/73
FORMATION.....	PLEI-E.E. SAND	PLEI-E.R. SAND	PLEI-D.R. SAND
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	4928	4958	4208
WELLHEAD PRESSURE, PSIG.....	1440	1995	1675
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	97.2	95.8	98.1
ETHANE.....	1.5	2.3	1.3
PROPANE.....	0.6	0.9	0.2
N-BUTANE.....	0.1	0.2	0.0
ISOBUTANE.....	0.1	0.2	0.0
N-PENTANE.....	TRACE	0.1	0.0
ISOPENTANE.....	TRACE	0.0	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	TRACE	TRACE	0.0
NITROGEN.....	0.4	0.5	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.2	0.1
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1034	1053	1022
SPECIFIC GRAVITY.....	0.575	0.586	0.565

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 100 13776	INDEX SAMPLE 101 13777	INDEX SAMPLE 102 13778
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST. MARY	ST. MARY	ST. MARY
FIELD.....	EUGENE ISLAND BLK. 292	EUGENE ISLAND BLK. 292	EUGENE ISLAND BLK. 292
WELL NAME.....	EUGENE ISLAND 292 NO. B-5	EUGENE ISLAND 287 NO. D-1	EUGENE ISLAND 287 NO. D-8
LOCATION.....	OFFSHORE	OFFSHORE	OFFSHORE
OWNER.....	FOREST OIL CORP.	FOREST OIL CORP.	FOREST OIL CORP.
COMPLETED.....	12/31/69	04/06/71	04/07/71
SAMPLED.....	09/14/73	09/14/73	09/14/73
FORMATION.....	PLEI-E.E. SAND	PLEI-E.H. SAND	PLEI-C.H. SAND
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	5289	5488	3564
WELLHEAD PRESSURE, PSIG.....	1995	1930	1450
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	95.5	96.9	99.4
ETHANE.....	2.4	1.6	0.1
PROPANE.....	1.0	0.6	TRACE
N-BUTANE.....	0.1	0.1	0.0
ISOBUTANE.....	0.2	0.1	0.0
N-PENTANE.....	TRACE	TRACE	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	0.1	TRACE	0.0
NITROGEN.....	0.3	0.3	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.3	0.1
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE.....	1055	1033	1009
SPECIFIC GRAVITY.....	0.590	0.575	0.558

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13770	INDEX SAMPLE 104 10105	INDEX SAMPLE 105 14250
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST. MARY	TERREBONNE	TERREBONNE
FIELD.....	EUGENE ISLAND BLK. 307	FIDDLERS LAKE	FOUR ISLE DOME
WELL NAME.....	EUGENE ISLAND 307 NO. E-2	LL&E B-1	R. W. BUCKLEY U9 NO. 6
LOCATION.....	OFFSHORE	SEC. 12, T21S, R13E	SEC. 11, T12S, R16E
OWNER.....	FOREST OIL CORP.	TEXACO INC.	SUPERIOR OIL CO.
COMPLETED.....	12/30/71	NOT GIVEN	03/15/74
SAMPLED.....	09/15/73	09/05/65	12/27/74
FORMATION.....	PLEI-E.H. SAND	MIOC-	-NO. 92 SAND
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	6044	15510	17203
WELLHEAD PRESSURE, PSIG...	1650	10175	4550
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	96.8	89.9	88.6
ETHANE.....	1.8	5.5	5.0
PROPANE.....	0.6	1.8	2.0
N-BUTANE.....	0.1	0.5	0.3
ISOBUTANE.....	0.2	0.4	0.8
N-PENTANE.....	TRACE	0.1	0.1
ISOPENTANE.....	TRACE	0.2	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.2
NITROGEN.....	0.3	0.5	0.3
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.9	2.6
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE.....	1044	1109	1099
SPECIFIC GRAVITY.....	0.578	0.635	0.654

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13175	INDEX SAMPLE 15347	INDEX SAMPLE 14286
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	TERREHONNE	UNION	VERMILION
FIELD.....	GIBSON	MONROE	KAPLAN
WELL NAME.....	KLEINSCHMIDT NO. 1	C. H. ALLEN NO. 1	E. DARTEZ NO. 1
LOCATION.....	SEC. 5, T17S, R15E	SEC. 26, T22N, R2E	SEC. 14, T12S, R1E
OWNER.....	QUINTANA PETROLEUM CORP.	ERGON INC.	SUPERIOR OIL CO.
COMPLETED.....	10/20/71	NOT GIVEN	06/11/74
SAMPLED.....	04/03/72	08/15/78	02/25/75
FORMATION.....	MIOC-	CRET-	-MIOGY
GEOLOGIC PROVINCE CODE.....	220	230	220
DEPTH, FEET.....	15136	2100	19434
WELLHEAD PRESSURE, PSIG....	10500	420	NOT GIVEN
OPEN FLOW, MCFD.....	15000	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	92.8	90.9	91.6
ETHANE.....	3.0	0.7	2.0
PROPANE.....	1.0	0.1	0.3
N-BUTANE.....	0.2	0.1	0.1
ISOBUTANE.....	0.3	0.0	0.1
N-PENTANE.....	0.1	0.1	TRACE
ISOPENTANE.....	0.1	TRACE	TRACE
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.1
NITROGEN.....	0.9	7.6	1.6
OXYGEN.....	0.1	0.1	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	0.1	4.2
HELIUM.....	TRACE	0.08	TRACE
HEATING VALUE**.....	1059	949	983
SPECIFIC GRAVITY.....	0.613	0.597	0.620

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14878	INDEX SAMPLE 13976	INDEX SAMPLE 15517
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARTISH.....	VERMILION	VERMILION	VERMILION
FIELD.....	KAPLAN S	REDFISH POINT	WILDCAT
WELL NAME.....	W. J. GREEN NO. 1	STATE LEASE 3306 NO. 3	BRUSSARD LAND CO. NO. 2
LOCATION.....	SEC. 23, T12S, R1E	OFFSHORE, T16S, R4E	SEC. 20, T14S, R2E
OWNER.....	SUPERIOR OIL CO.	GULF OIL CO.-U.S.	INEXCO OIL CO.
COMPLETED.....	NOT GIVEN	03/06/72	NOT GIVEN
SAMPLED.....	12/27/76	03/19/74	11/15/78
FORMATION.....	OLIG-CAMERINA	-N SAND	NOT GIVEN
DEPTH, FEET.....	220	220	220
WELLHEAD PRESSURE, PSIG.....	17200	15629	NOT GIVEN
OPEN FLOW, MCFD.....	9514	NOT GIVEN	4300
COMPONENT, MOLE PCT	NOT GIVEN	NOT GIVEN	NOT GIVEN
METHANE.....	82.6	80.5	91.0
ETHANE.....	8.3	5.1	4.9
PROPANE.....	3.6	4.8	1.5
N-BUTANE.....	0.9	1.7	0.4
ISOBUTANE.....	0.8	2.6	0.4
N-PENTANE.....	0.2	0.6	0.2
ISOPENTANE.....	0.3	0.9	0.1
CYCLOPENTANE.....	0.1	0.2	TRACE
HEXANES PLUS.....	0.2	0.7	0.2
NITROGEN.....	0.3	1.3	0.4
OXYGEN.....	0.0	0.1	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.6	1.7	0.9
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE*.....	1171	1284	1099
SPECIFIC GRAVITY.....	0.700	0.766	0.627

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 112 15201	INDEX SAMPLE 113 15810	INDEX SAMPLE 114 13080
STATE.....	LOUISIANA	MICHIGAN	MICHIGAN
PARISH.....	W. RATON ROUGE	GRAND TRAVERSE	KALKASKA
FIELD.....	FALSE RIVER	UNION	BOARDMAN S
WELL NAME.....	POPLAR GROVE P & R CO. NO. 1	ST. UNION "0" NO. 1-22	UNIT NO. 1-4
LOCATION.....	SEC. 9, T6S, R1E	SEC. 22, T26N, R9W	SEC. 4, T26N, R8W
OWNER.....	CHEVRON U.S.A., INC.	AMOCO PRODUCTION CO.	SHELL OIL CO.
COMPLETED.....	06/18/76	07/10/78	10/09/71
SAMPLED.....	01/13/78	10/23/79	10/12/71
FORMATION.....	CRET-TUSCALOOSA	SILU-NIAGARA	SILU-NIAGARA
GEOLOGIC PROVINCE CODE...	220	305	305
DEPTH, FEET.....	19700	NOT GIVEN	6925
WELLHEAD PRESSURE, PSIG...	12380	2022	2680
OPEN FLOW, MCFD.....	NOT GIVEN	12200	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	89.5	87.8	76.7
ETHANE.....	2.7	5.6	6.2
PROPANE.....	0.3	2.5	3.2
N-BUTANE.....	0.1	0.9	0.7
ISOBUTANE.....	0.1	1.6	1.3
N-PENTANE.....	TRACE	0.1	0.2
ISOPENTANE.....	TRACE	0.5	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.2
NITROGEN.....	0.5	0.9	8.8
OXYGEN.....	0.1	0.0	2.0
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	6.4	TRACE	0.4
HELIUM.....	975	1175	0.02
HEATING VALUE*.....			1066
SPECIFIC GRAVITY.....	0.640	0.666	0.712

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 115 13062	INDEX SAMPLE 116 15210	INDEX SAMPLE 117 13075
STATE.....	MICHIGAN	MISSISSIPPI	MISSISSIPPI
COUNTY.....	OSTEGO	HANCOCK	JEFFERSON
FIELD.....	CHESTER	WAVELAND	GWINVILLE
WELL NAME.....	CHESTER N NO. 1	CROSBY ESTATE "F" NO. 1	GWINVILLE GAS UNIT NO. 3
LOCATION.....	SEC. 15, T29N, R2W	SEC. 1, T8S, R15W	SEC. 21, T9N, R19W
OWNER.....	SHELL OIL CO.	PHILLIPS PETROLEUM CO.	HUMBLE OIL & REFINING CO.
COMPLETED.....	05/18/70	NOT GIVEN	02/24/71
SAMPLED.....	10/13/71	02/--/78	10/06/71
FORMATION.....	SILU-SALINA & NIAGARA	CRET-MOORINGSPO	CRET-PALUXY
GEOLOGIC PROVINCE CODE.....	305	210	210
DEPTH, FEET.....	6352	13338	12256
WELLHEAD PRESSURE, PSIG.....	2250	3715	2450
OPEN FLOW, MCFD.....	NOT GIVEN	4100	7200
COMPONENT, MOLE PCT			
METHANE.....	82.2	92.0	95.8
ETHANE.....	7.2	0.8	0.3
PROPANE.....	3.6	0.3	0.1
N-BUTANE.....	0.7	0.2	0.1
ISOBUTANE.....	1.3	TRACE	0.1
N-PENTANE.....	0.2	0.2	TRACE
ISOPENTANE.....	0.2	0.1	TRACE
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.2	0.2	0.1
NITROGEN.....	3.6	1.5	1.7
OXYGEN.....	0.7	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	4.5	1.7
HELIUM.....	0.02	0.03	0.04
HEATING VALUE.....	1150	988	990
SPECIFIC GRAVITY.....	0.689	0.626	0.585

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13076	INDEX SAMPLE 119 15548	INDEX SAMPLE 120 15549
STATE.....	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI
COUNTY.....	JEFFERSON	JEFFERSON	LAWRENCE
FIELD.....	GWINVILLE	UNION CHURCH	MONTICELLO
WELL NAME.....	GWINVILLE GAS UNIT NO. 3	SARAH G. CUPIT NO. 1	SMITH ESTATE NO. 1
LOCATION.....	SEC. 21, T9N, R19W	SEC. 2, T8N, R4E	SEC. 3, T7N, R11E
OWNER.....	HUMBLE OIL & REFINING CO.	INEXCO OIL CO.	INEXCO OIL CO.
COMPLETED.....	02/24/71	05/--/78	07/--/78
SAMPLED.....	10/06/71	12/27/78	12/28/78
FORMATION.....	CRET-PALUXY	CRET-HOSSTON	CRET-HOSSTON
GEOLOGIC PROVINCE CODE...	210	210	210
DEPTH, FEET.....	1116	NOT GIVEN	15791
WELLHEAD PRESSURE, PSIG...	3650	6200	5000
OPEN FLOW, MCFD.....	6600	NOT GIVEN	5000
COMPONENT, MOLE PCT			
METHANE.....	95.9	91.3	91.3
ETHANE.....	0.3	2.5	1.0
PROPANE.....	0.1	0.8	0.2
N-BUTANE.....	TRACE	0.2	0.1
ISOBUTANE.....	0.1	0.2	0.1
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.0	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	TRACE
NITROGEN.....	1.8	1.0	2.3
OXYGEN.....	TRACE	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.1	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.5	3.6	4.6
HELIUM.....	0.04	0.02	0.04
HEATING VALUE.....	992	1018	967
SPECIFIC GRAVITY.....	0.584	0.626	0.624

\* CALCULATED GROSS BTU PER CU FT. DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11520	INDEX SAMPLE 122 13953	INDEX SAMPLE 123 13815
STATE.....	MISSISSIPPI	NEW MEXICO	NEW MEXICO
COUNTY.....	RANKIN	EDDY	EDDY
FIELD.....	WILDCAT	JAMES RANCH	NOT GIVEN
WELL NAME.....	J. A. SPANN EST. NO. 1	JAMES RANCH NO. 3	MCINN-STATE NO. 1
LOCATION.....	SEC. 19, T6N, R5E	SEC. 1, T23S, R30E	SEC. 18, T21S, R25E
OWNER.....	GENERAL CRUDE OIL CO.	BELCO PETROLEUM CO.	INEXCO OIL CO.
COMPLETED.....	DRILL STEM TEST NO. 5	12/08/72	08/01/72
SAMPLED.....	05/--/68	03/15/74	11/--/73
FORMATION.....	JURA-SMACKOVER	PENN-STRAWN	PENN-MORROW
GEOLOGIC PROVINCE CODE...	210	430	430
DEPTH, FEET.....	NOT GIVEN	12731	10536
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	6287	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	18000	7300
COMPONENT, MOLE PCT			
METHANE.....	0.2	86.6	95.7
ETHANE.....	0.0	6.0	2.3
PROPANE.....	TRACE	2.2	0.5
N-BUTANE.....	0.0	1.0	0.1
ISOBUTANE.....	0.0	0.7	0.1
N-PENTANE.....	0.0	0.7	TRACE
ISOPENTANE.....	0.0	0.5	TRACE
CYCLOPENTANE.....	0.0	0.2	0.1
HEXANES PLUS.....	0.0	0.9	0.1
NITROGEN.....	1.1	0.7	0.3
OXYGEN.....	0.1	0.1	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	98.5	0.4	0.8
HELIUM.....	0.02	0.02	0.02
HEATING VALUE*.....	2	1204	1039
SPECIFIC GRAVITY.....	1.519	0.688	0.587

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13816	INDEX SAMPLE 13655	INDEX SAMPLE 126 14498
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	EDDY	LEA	LEA
FIELD.....	NOT GIVEN	ANTELOPE RIDGE	BELL LAKE
WELL NAME.....	MCMINN-STATE NO. 1	STATE 1 NO.1	BELL LAKE UNIT 4 NO. 15
LOCATION.....	SEC. 18, T21S, R26E	SEC. 2, T24S, R34E	SEC. 8, T23S, R34E
OWNER.....	INEXCO OIL CO.	TEXAS WEST OIL & GAS CORP.	CONTINENTAL OIL CO.
COMPLETED.....	08/01/72	03/12/73	03/06/75
SAMPLED.....	11/--/73	07/21/73	10/21/75
FORMATION.....	PENN-STRAWN	PENN-ATOKA	PENN-MORROW
GEOLOGIC PROVINCE CODE.....	430	430	430
DEPTH, FEET.....	9868	12288	13278
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	6600	NOT GIVEN
OPEN FLOW, MCFD.....	11700	21500	4700
COMPONENT, MOLE PCT			
METHANE.....	92.0	75.0	88.6
ETHANE.....	4.5	7.3	5.2
PROPANE.....	1.2	2.9	1.8
N-BUTANE.....	0.2	0.7	0.3
ISOBUTANE.....	0.3	0.5	0.4
N-PENTANE.....	TRACE	0.1	0.1
ISOPENTANE.....	0.2	0.4	0.1
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.2	0.2	0.1
NITROGEN.....	1.1	10.2	1.5
OXYGEN.....	0.0	2.2	0.0
ARGON.....	0.0	0.1	0.0
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.2	1.9
HELIUM.....	0.03	0.01	0.02
HEATING VALUE*.....	1093	1042	1075
SPECIFIC GRAVITY.....	0.615	0.711	0.640

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 15537	INDEX SAMPLE 11697	INDEX SAMPLE 129 13468
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	LEA	SAN JUAN	SAN JUAN
FIELD.....	WJERECH PLAINS	NOT GIVEN	SAN JUAN
WELL NAME.....	FEDERAL "E" NO. 1	J. W. GOODARD NO. 3	HORTON NO. 3
LOCATION.....	SEC. 27, T1AS, R32E	SEC. 11, T26N, R12W	SEC. 35, T32N, R11W
OWNER.....	MEMROURNE OIL CO.	SKELLY OIL CO.	EL PASO NATURAL GAS CO.
COMPLETED.....	03/22/77	09/27/64	07/25/72
SAMPLED.....	12/10/78	12/06/68	11/06/72
FORMATION.....	PENN-MORROW	CRET-FRUITLAND	CRET-PICTURED CLIFFS
GEOLOGIC PROVINCE CODE.....	430	580	580
DEPTH, FEET.....	12620	1184	2861
WELLHEAD PRESSURE, PSIG.....	4004	374	964
OPEN FLOW, MCFD.....	2446	1814	2613
COMPONENT, MOLE PCT			
METHANE.....	86.7	96.0	87.1
ETHANE.....	7.3	0.4	7.2
PROPANE.....	3.1	0.1	3.0
N-BUTANE.....	0.7	0.0	0.7
ISOBUTANE.....	0.3	0.0	0.6
N-PENTANE.....	0.1	0.0	0.3
ISOPENTANE.....	0.2	0.0	TRACE
CYCLOPENTANE.....	0.1	0.0	0.1
HEXANES PLUS.....	0.1	0.0	0.2
NITROGEN.....	0.7	3.2	0.1
OXYGEN.....	0.0	0.1	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	TRACE	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	TRACE	0.7
HELIUM.....	0.03	0.02	0.01
HEATING VALUE**.....	1145	983	1160
SPECIFIC GRAVITY.....	0.655	0.570	0.660

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 9291	INDEX SAMPLE 9321	INDEX SAMPLE 9393
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	SAN JUAN	SAN JUAN	SAN JUAN
FIELD.....	TOCITO DOME	TOCITO DOME	TOCITO DOME
WELL NAME.....	NAVAJO "AL" NO. 1	NAVAJO AL NO. 1	NAVAJO "AL" TRIBAL NO. 2
LOCATION.....	SEC. 28, T26N, R18W	SEC. 28, T26N, R18W	SEC. 28, T26N, R18W
OWNER.....	TEXACO INC.	TEXACO INC.	TEXACO INC.
COMPLETED.....	NOT GIVEN	DRILL STEM TEST	NOT GIVEN
SAMPLED.....	04/12/64	04/29/64	06/12/64
FORMATION.....	PENN-PARADOX	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	580	580	580
DEPTH, FEET.....	6215	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	3325	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	1800	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	67.1	0.9	69.8
ETHANE.....	10.8	0.0	11.7
PROPANE.....	6.6	0.2	6.3
N-BUTANE.....	4.5	0.0	2.9
ISOBUTANE.....	1.8	0.0	1.5
N-PENTANE.....	2.2	0.0	0.8
ISOPENTANE.....	TRACE	0.0	1.1
CYCLOPENTANE.....	0.5	0.0	0.4
HEXANES PLUS.....	2.2	0.0	1.3
NITROGEN.....	3.3	90.0	3.1
OXYGEN.....	0.1	0.0	TRACE
ARGON.....	0.1	1.0	TRACE
HYDROGEN.....	0.0	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	TRACE	0.9
HELIUM.....	0.23	7.81	0.15
HEATING VALUE*.....	1483	15	1391
SPECIFIC GRAVITY.....	0.895	0.903	0.839

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 10256	INDEX SAMPLE 10534	INDEX SAMPLE 12524
STATE.....	NEW YORK	NORTH DAKOTA	OHIO
COUNTY.....	CHEMANGO	MCKENZIE	ASHTABULA
FIELD.....	SMITHFIELD FLATS	CLEAR CREEK	LENOX
WELL NAME.....	DECKER NO. 2	UNIT NO. 3	KANANEN-SUPPLEE NO. 1
LOCATION.....	WILBUR DECKER FARM	SEC. 23, T152N, R96W	LENOX TOWNSHIP
OWNER.....	GENFGANTSLET GAS & OIL CO.	SKELLY OIL CO.	UNION OIL CO. OF CALIFORNIA
COMPLETION.....	01/01/64	10/15/65	09/09/70
SAMPLED.....	10/28/65	04/19/66	11/05/70
FORMATION.....	SILU-OECKER	PENN-MINNELUSA	SILU-CLINTON
GEOLOGIC PROVINCE CODE...	160	395	160
DEPTH, FEET.....	2020	7184	3304
WELLHEAD PRESSURE, PSIG...	565	2650	1220
OPEN FLOW, MCFD.....	2500	45000	2806
COMPONENT, MOLE PCT			
METHANE.....	97.3	0.5	89.5
ETHANE.....	1.8	0.1	4.4
PROPANE.....	0.2	0.2	1.4
N-BUTANE.....	0.0	0.0	0.4
ISOBUTANE.....	0.0	0.0	0.3
N-PENTANE.....	0.0	0.0	0.1
ISOPENTANE.....	0.0	0.0	TRACE
CYCLOPENTANE.....	0.0	0.0	TRACE
HEXANES PLUS.....	0.0	0.0	0.1
NITROGEN.....	0.3	96.0	3.7
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.3	0.1	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.0	3.0	0.0
HELIUM.....	0.06	0.06	0.12
HEATING VALUE**.....	1024	12	1055
SPECIFIC GRAVITY.....	0.565	0.982	0.620

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX 136 SAMPLE 13635	INDEX 137 SAMPLE 13656	INDEX 138 SAMPLE 14854
STATE.....	OHIO	OHIO	OHIO
COUNTY.....	GEAUGA	GEAUGA	MAHONING
FIELD.....	AUBURN	AUBURN	LIMA N
WELL NAME.....	TIMMONS NO. 1	ORAVEC NO. 1	RICHARD CALVIN NO. 1
LOCATION.....	LOT 2, SEC. 3, AUBURN TWP.	LOT 38, NEWBURY TWP.	SEC. 9, BEAVER TOWNSHIP
OWNER.....	QUAKER STATE OIL REF. CORP.	QUAKER STATE OIL REF. CORP.	POMINEX, INC.
COMPLETED.....	12/30/71	01/26/72	06/20/75
SAMPLED.....	07/--/73	07/--/73	11/03/76
FORMATION.....	SILU-CLINTON	SILU-CLINTON	SILU-CLINTON
GEOLOGIC PROVINCE CODE...	160	160	160
DEPTH, FEET.....	3723	3775	5510
WELLHEAD PRESSURE, PSIG...	1500	1575	1375
OPEN FLOW, MCFD.....	600	3072	1400
COMPONENT, MOLE PCT			
METHANE.....	86.5	88.9	94.2
ETHANE.....	5.6	4.9	2.4
PROPANE.....	2.5	1.8	0.3
N-BUTANE.....	0.7	0.4	TRACE
ISOBUTANE.....	0.5	0.4	0.1
N-PENTANE.....	0.2	0.1	TRACE
ISOPENTANE.....	0.3	0.1	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	TRACE
NITROGEN.....	3.5	3.0	2.7
OXYGEN.....	0.0	0.0	0.1
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.0	TRACE	TRACE
HELIUM.....	0.13	0.12	0.08
HEATING VALUE*.....	1108	1076	1008
SPECIFIC GRAVITY.....	0.652	0.626	0.582

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14243	INDEX SAMPLE 140 14704	INDEX SAMPLE 141 14705
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	ALFALFA	ALFALFA	ALFALFA
FIELD.....	LAMBERT NW	LAMBERT SE	LAMBERT SE
WELL NAME.....	WEBB NO. 9-B	RUTH NO. 1	SCHMITZER
LOCATION.....	SEC. 9, T26N, R12W	SEC. 15, T25N, R10W	SEC. 21, T25N, R10W
OWNER.....	RAN RICKS, JR.	L. R. FRENCH JR.	L. R. FRENCH JR.
COMPLETED.....	NOT GIVEN	11/02/75	NOT GIVEN
SAMPLED.....	12/--/74	06/15/76	06/15/76
FORMATION.....	NOT GIVEN	PENN-OSWEGO	PENN-OSWEGO
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	NOT GIVEN	5388	5483
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	750	950
OPEN FLOW, MCFD.....	NOT GIVEN	600	600
COMPONENT, MOLE PCT			
METHANE.....	88.9	87.2	86.2
ETHANE.....	5.5	5.3	5.7
PROPANE.....	2.6	2.8	3.2
N-BUTANE.....	0.8		1.0
ISOBUTANE.....	0.5	0.4	0.4
N-PENTANE.....	0.2	0.2	0.2
ISOPENTANE.....	0.3	0.4	0.4
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.2	0.2
NITROGEN.....	0.9	2.3	2.4
OXYGEN.....	TRACE	0.1	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.1
HELIUM.....	0.04	0.08	0.09
HEATING VALUE.....	1146	1131	1146
SPECIFIC GRAVITY.....	0.649	0.656	0.670

\* CALCULATED GROSS FTU PER CU FT. DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11005	INDEX SAMPLE 12876	INDEX SAMPLE 13576
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	ALFALFA	BEAVER	BECKHAM
FIELD.....	PINGWOOD	CAMRICK DISTRICT	ERICK
WELL NAME.....	PECHA NO. 1	BRANGROVE NO. 2	POWELL NO 1-11
LOCATION.....	SEC. 9, T23N, R9W	SEC. 33, T1N, R20ECM	SEC. 11, T9N, R25W
OWNER.....	ALADDIN PETROLEUM CORP.	ATLANTIC RICHFIELD CO.	MCCULLOCH OIL CORP.
COMPLETED.....	01/02/67	NOT GIVEN	11/15/72
SAMPLED.....	06/21/67	06/23/71	04/10/73
FORMATION.....	MISS-	NOT GIVEN	PERM-GRANITEWASH
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	6515	NOT GIVEN	7000
WELLHEAD PRESSURE, PSIG...	1350	NOT GIVEN	1925
OPEN FLOW, MCFD.....	14174	NOT GIVEN	30
COMPONENT, MOLE PCT			
METHANE.....	87.0	88.5	94.0
ETHANE.....	6.4	4.7	2.7
PROPANE.....	2.1	3.1	1.1
N-BUTANE.....	0.7	1.0	0.3
ISOBUTANE.....	0.3	0.4	0.2
N-PENTANE.....	0.3	0.2	0.1
ISOPENTANE.....	0.2	0.3	0.1
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.3	0.2	0.1
NITROGEN.....	1.4	1.3	1.1
OXYGEN.....	0.1	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.1	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.3
HELIUM.....	0.57	0.10	0.04
HEATING VALUE*.....	1125	1144	1060
SPECIFIC GRAVITY.....	0.548	0.652	0.600

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 145 0351	INDEX SAMPLE 146 15004	INDEX SAMPLE 147 15792
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	BLAINE	BLAINE	BLAINE
FIELD.....	SQUAW CREEK	SQUAW CREEK	SQUAW CREEK
WELL NAME.....	A. O. BAKER NO. 1	TURTLE SITTING DOWN NO. 1	COWAN NO. 1-2
LOCATION.....	SEC. 36, T14N, R13W	SEC. 27, T14N, R13W	SEC. 2, T14N, R13W
OWNER.....	SUN OIL CO.	HARPER OIL CO.	MUSTANG PRODUCTION CO.
COMPLETED.....	09/16/59	11/06/76	NOT GIVEN
SAMPLED.....	12/27/61	05/17/77	09/27/79
FORMATION.....	PCNN-CHEROKEE	PENN-SPRINGER	PENN-MORROW
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	10777	11796	10323
WELLHEAD PRESSURE, PSIG.....	5400	4400	2000
OPEN FLOW, MCFD.....	19784	1550	2995
COMPONENT, MOLE PCT			
METHANE.....	80.7	87.6	93.9
ETHANE.....	7.9	6.3	3.3
PROPANE.....	3.0	2.9	0.8
N-BUTANE.....	0.4	0.8	0.2
ISOBUTANE.....	0.4	0.6	0.1
N-PENTANE.....	0.0	0.2	0.1
ISOPENTANE.....	0.3	0.2	0.1
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	0.2	0.1
NITROGEN.....	5.5	0.3	0.6
OXYGEN.....	1.2	0.0	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.7	0.7
HELIUM.....	0.05	0.02	0.02
HEATING VALUE*.....	1077	1150	1055
SPECIFIC GRAVITY.....	0.677	0.655	0.599

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 8262	INDEX SAMPLE 11650	INDEX SAMPLE 15116
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	BLAINE	BLAINE	CADDO
FIELD.....	WATONGA NE	WATONGA NW	COGAR N
WELL NAME.....	C. W. SWANEYAN NO. 1	MARTIN NO. 1	TAPPER NO. 1
LOCATION.....	SEC. 11, T16N, R11W	SEC. 8, T16N, R13W	SEC. 1, T10N, R10W
OWNER.....	TEXACO INC.	AMOCO PRODUCTION CO.	WOODS PETROLEUM CORP.
COMPLETED.....	08/30/61	01/04/68	05/15/76
SAMPLED.....	11/01/61	09/16/68	09/--/77
FORMATION.....	PENN-CHEROKEE & ATOKA	PENN-MORROW	PENN-MORROW
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	9022	9738	12374
WELLHEAD PRESSURE, PSIG...	6500	1989	7650
OPEN FLOW, MCFD.....	NOT GIVEN	2875	2480
COMPONENT, MOLE PCT			
METHANE.....	93.3	85.7	86.9
ETHANE.....	3.6	7.5	3.4
PROPANE.....	1.2	3.9	1.7
N-BUTANE.....	0.2	1.0	0.7
ISOBUTANE.....	0.1	0.4	0.4
N-PENTANE.....	TRACE	0.2	0.2
ISOPENTANE.....	0.1	0.2	0.6
CYCLOPENTANE.....	0.1	0.1	0.2
HEXANES PLUS.....	0.1	0.2	0.5
NITROGEN.....	0.9	0.6	3.9
OXYGEN.....	0.1	0.0	0.9
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.4	0.7
HELIUM.....	0.03	0.04	0.02
HEATING VALUE*.....	1064	1178	1090
SPECIFIC GRAVITY.....	0.602	0.672	0.665

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 10657	INDEX SAMPLE 13658	INDEX SAMPLE 14812
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	CIMARRON	CIMARRON	COAL
FIELD.....	KEYES GAS AREA	MIDWELL	ASHLAND S
WELL NAME.....	FERGUSON UNIT NO. 1	DENNING NO. 1	GOODMAN NO. 1
LOCATION.....	SEC. 2, T4N, R9ECM	SEC. 24, T4N, R9ECM	SEC. 1, T3N, R11E
OWNER.....	AMOCO PRODUCTION CO.	AN-SON CORP.	NFC PETROLEUM CORP.
COMPLETED.....	03/04/54	02/09/73	06/17/76
SAMPLED.....	07/20/66	07/25/73	10/--/76
FORMATION.....	PENN-KEYES	PENN-MORROW	PENN-HARTSHORNE
GEOLOGIC PROVINCE CODE...	435	435	345
DEPTH, FEET.....	4590	4560	3347
WELLHEAD PRESSURE, PSIG...	834	750	486
OPEN FLOW, MCFD.....	55415	3000	4881
COMPONENT, MOLE PCT			
METHANE.....	62.3	60.1	91.3
ETHANE.....	3.1	4.0	3.3
PROPANE.....	2.0	2.3	1.7
N-BUTANE.....	0.7	0.6	0.4
ISOBUTANE.....	0.4	0.4	0.2
N-PENTANE.....	0.2	0.1	0.1
ISOPENTANE.....	0.2	0.2	0.1
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.1
NITROGEN.....	27.2	30.7	2.1
OXYGEN.....	0.1	0.0	TRACE
ARGON.....	0.1	0.1	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	0.1	0.5
HELIUM.....	2.22	1.21	0.13
HEATING VALUE*.....	807	792	1062
SPECIFIC GRAVITY.....	0.740	0.744	0.616

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14281	INDEX SAMPLE 15305	INDEX SAMPLE 15800
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	COMANCHE	CUSTER	CUSTER
FIELD.....	FT. SILL	ANTHON	ARAPAHO
WELL NAME.....	RYAN NO. 1	HOELKER NO. 1	COULSON NO. 1
LOCATION.....	SEC. 23, T3N, R10W	SEC. 33, T15N, R17W	SEC. 28, T13N, R17W
OWNER.....	SHEBESTER, INC.	FERGUSON OIL CO.	HARPER OIL CO.
COMPLETED.....	11/30/73	09/19/77	NOT GIVEN
SAMPLED.....	02/28/75	06/22/78	10/02/79
FORMATION.....	PERM-RYAN	DEVO-HUNTON	PENN-MORROW
GEOLOGIC PROVINCE CODE...	350	360	360
DEPTH, FEET.....	1395	15708	15740
WELLHEAD PRESSURE, PSIG...	535	4200	9800
OPEN FLOW, MCFD.....	2340	8630	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	90.9	92.2	96.9
ETHANE.....	3.6	0.2	0.7
PROPANE.....	1.7	TRACE	0.1
N-BUTANE.....	0.4	0.0	TRACE
ISOBUTANE.....	0.3	0.0	TRACE
N-PENTANE.....	0.1	0.0	TRACE
ISOPENTANE.....	TRACE	0.0	0.0
CYCLOPENTANE.....	TRACE	0.0	TRACE
HEXANES PLUS.....	0.1	0.0	0.1
NITROGEN.....	2.8	2.1	0.3
OXYGEN.....	0.0	0.1	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.1	0.0
HYDROGEN SULFIDE*.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	5.3	1.9
HELIUM.....	0.10	0.03	0.02
HEATING VALUE*.....	1062	938	1002
SPECIFIC GRAVITY.....	0.615	0.616	0.581

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11431	INDEX SAMPLE 14979	INDEX SAMPLE 159 11255
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	CUSTER	CUSTER	DEWEY
FIELD.....	CRANE SE	THOMAS S	NOBSCOT NW
WELL NAME.....	CRANE STAR NO. 1	HOYD MILLEP NO. 1	CROSS UNIT NO. 1
LOCATION.....	SEC. 17, T15N, R14W	SEC. 10, T14N, R14W	SEC. 25, T17N, R16W
OWNER.....	LASON OIL CO.	DAVIS OIL CO.	AMOCO PRODUCTION CO.
COMPLETED.....	04/05/66	NOT GIVEN	10/01/67
SAMPLED.....	04/05/68	04/24/77	01/10/68
FORMATION.....	PENN-MORROW & MISS-CHESTER	PENN-RED FORK	PENN-MORROW
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	1100	NOT GIVEN	10244
WELLHEAD PRESSURE, PSIG...	4500	4982	4250
OPEN FLOW, MCFD.....	NOT GIVEN	4350	9245
COMPONENT, MOLE PCT			
METHANE.....	94.6	83.0	91.9
ETHANE.....	3.0	9.3	3.6
PROPANE.....	0.7	4.4	1.1
N-BUTANE.....	0.2	0.9	0.3
ISOBUTANE.....	TRACE	0.5	0.2
N-PENTANE.....	0.2	0.2	0.1
ISOPENTANE.....	0.0	0.2	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	0.3	0.9	1.3
OXYGEN.....	0.0	0.0	0.2
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	0.5	0.6
HELIUM.....	0.03	0.03	0.03
HEATING VALUE.....	1051	1191	1068
SPECIFIC GRAVITY.....	0.594	0.685	0.615

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 160 10848	INDEX SAMPLE 161 10433	INDEX SAMPLE 162 11759
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	ELLIS	GARFIELD	GARFIELD
FIELD.....	RISHOP	SOONER TREND	SOONER TREND
WELL NAME.....	ARCHIE B NO. 1	SAWYER NO. 1	EGGERS-BARBEE NO. 1
LOCATION.....	SEC. 18, T17N, R25W	SEC. 1, T21N, R7W	SEC. 4, T21N, R5W
OWNER.....	PHILLIPS PETROLEUM CO.	SKELLY OIL CO.	VIERSSEN & COCHRAN
COMPLETED.....	05/11/64	NOT GIVEN	NOT GIVEN
SAMPLED.....	01/23/67	03/07/66	02/07/69
FORMATION.....	PENN-TONKAWA	MISS-MORMIO	MISS-
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	7811	6770	6150
WELLHEAD PRESSURE, PSIG...	2217	1200	2000
OPEN FLOW, MCFD.....	19750	850	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	82.7	84.5	55.5
ETHANE.....	8.0	7.7	18.3
PROPANE.....	4.4	3.2	14.4
N-BUTANE.....	1.1	1.1	5.0
ISOBUTANE.....	0.6	0.5	2.8
N-PENTANE.....	0.2	0.2	1.4
ISOPENTANE.....	0.3	0.3	0.6
CYCLOPENTANE.....	TRACE	0.1	0.3
HEXANES PLUS.....	0.2	0.2	0.7
NITROGEN.....	2.0	1.4	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.7	0.6
HELIUM.....	0.12	0.10	TRACE
HEATING VALUE**.....	1184	1166	1659
SPECIFIC GRAVITY.....	0.690	0.677	0.976

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12176	INDEX SAMPLE 11630	INDEX SAMPLE 11325
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	GRADY	GRADY	HARPER
FIELD.....	CHICKASHA NW	RUSH SPRINGS SW	BUFFALO N
WELL NAME.....	DIETRICH NO. 1	RUSH SPRINGS UNIT NO. 1	ROBERT R. ROHRER NO. 1
LOCATION.....	SEC. 13, T7N, R8W	SEC. 8, T3N, R7W	SEC. 6, T28N, R22W
OWNER.....	PHILLIPS PETROLEUM CO.	CHEVRON OIL CO.	ATLANTIC RICHFIELD CO.
COMPLETED.....	01/11/70	12/01/67	08/24/59
SAMPLED.....	01/26/70	08/20/68	03/01/68
FORMATION.....	PENN-SPRINGFRK-CUNNINGHAM	PENN-SPRINGER	PENN-MORROW
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	14393	16877	7220
WELLHEAD PRESSURE, PSIG...	1120	10494	1406
OPEN FLOW, MCFO.....	28000	6050	4053
COMPONENT, MOLE PCT			
METHANE.....	91.8	83.8	91.8
ETHANE.....	4.3	2.1	3.7
PROPANE.....	1.7	0.3	1.6
N-BUTANE.....	0.3	0.2	0.5
ISOBUTANE.....	0.1	0.0	0.2
N-PENTANE.....	TRACE	0.3	0.2
ISOPENTANE.....	0.1	TRACE	0.1
CYCLOPENTANE.....	TRACE	0.1	0.2
HEXANES PLUS.....	0.1	0.1	0.4
NITROGEN.....	0.8	9.8	0.9
OXYGEN.....	TRACE	2.4	0.0
ARGON.....	0.0	0.1	TRACE
HYDROGEN.....	0.1	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	0.7	0.2
HELIUM.....	0.03	0.02	0.09
HEATING VALUE**.....	1074	923	1102
SPECIFIC GRAVITY.....	0.610	0.642	0.623

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11277	INDEX SAMPLE 14247	INDEX SAMPLE 14382
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	HARPER	HARPER	HASKELL
FIELD.....	BUFFALO S	FORT SUPPLY NE	STIGLER
WELL NAME.....	ERPLE PROPHET NO. 1	DEWESE NO. 1	MCCARROLL NO. 1
LOCATION.....	SEC. 35, T27N, R23W	SEC. 22, T25N, R21W	SEC. 10, T9N, R21E
OWNER.....	SOUTHLAND ROYALTY CO.	DYCO PETROLEUM CORP.	SOUTHERN UNION PRODUCTION CO
COMPLETED.....	NOT GIVEN	10/10/74	02/01/74
SAMPLED.....	02/13/68	12/30/74	06/11/75
FORMATION.....	PENN-TONKAWA	MISS-CHESTER	PENN-SPIRO
GEOLOGIC PROVINCE CODE...	360	360	345
DEPTH, FEET.....	NOT GIVEN	6946	4011
WELLHEAD PRESSURE, PSIG...	1490	1436	1550
OPEN FLOW, MCFD.....	NOT GIVEN	8250	2200
COMPONENT, MOLE PCT			
METHANE.....	76.4	91.3	96.5
ETHANE.....	7.4	3.9	1.1
PROPANE.....	2.8	1.7	0.1
N-BUTANE.....	1.0	0.4	0.0
ISOBUTANE.....	0.3	0.3	0.0
N-PENTANE.....	0.4	0.1	0.0
ISOPENTANE.....	0.2	0.2	0.0
CYCLOPENTANE.....	0.1	TRACE	0.0
HEXANES PLUS.....	0.3	0.1	0.0
NITROGEN.....	9.0	1.2	0.0
OXYGEN.....	1.6	TRACE	1.6
ARGON.....	0.1	TRACE	0.1
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.5	0.0
HELIUM.....	0.16	0.10	0.09
HEATING VALUE*.....	1068	1080	1000
SPECIFIC GRAVITY.....	0.708	0.618	0.572

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 169 13977	INDEX SAMPLE 170 11546	INDEX SAMPLE 171 13743
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	HUGHES	KAY	KINGFISHER
FIELD.....	WILDCAT	CHILOCCO E	LYONS SW
WELL NAME.....	WILRANKS NO. 1	WIDENER NO. 2	FLORENE NO. 4
LOCATION.....	SEC. 29, T5N, R11E	SEC. 20, T29N, R3E	SEC. 5, T19N, R9W
OWNER.....	WOODS PETROLEUM CO.	FELL & WOLFE OIL CO.	HARPER OIL CO.
COMPLETED.....	04/11/74	NOT GIVEN	08/27/73
SAMPLED.....	04/15/74	06/20/68	10/05/73
FORMATION.....	PENN-THURMAN-BOGGY	PENN-BARTLESVILLE	PENN-OSWEGO
GEOLOGIC PROVINCE CODE...	355	355	360
DEPTH, FEET.....	1511	3200	NOT GIVEN
WELLHEAD PRESSURE, PSIG...	650	190	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	92.6	73.8	84.2
ETHANE.....	2.2	7.8	7.6
PROPANE.....	0.2	3.4	4.1
N-BUTANE.....	TRACE	1.2	1.2
ISOBUTANE.....	0.1	0.4	0.7
N-PENTANE.....	0.0	0.6	0.3
ISOPENTANE.....	0.1	0.1	0.3
CYCLOPENTANE.....	TRACE	0.2	0.1
HEXANES PLUS.....	TRACE	0.7	0.2
NITROGEN.....	4.6	11.2	1.1
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	TRACE	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.3	0.2
HELIUM.....	0.17	0.37	0.07
HEATING VALUE.....	990	1103	1199
SPECIFIC GRAVITY.....	0.589	0.734	0.687

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 10719	INDEX SAMPLE 10882	INDEX SAMPLE 14713
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	LATIMER	LATIMER	LOGAN
FIELD.....	KINTA	KINTA	PRAIRIE BELL
WELL NAME.....	WHITE F NO. 1	WHITE F NO. 1A	VAUGHTER NO. 1
LOCATION.....	SEC. 3, T6N, R18E	SEC. 13, T6N, R18E	SEC. 31, T15N, R3W
OWNER.....	SKELLY OIL CO.	SKELLY OIL CO.	FERGUSON OIL CO.
COMPLETED.....	06/11/66	09/14/66	01/06/76
SAMPLED.....	09/09/66	02/19/67	06/27/76
FORMATION.....	PENN-ATOKA	PENN-ATOKA	PENN-LAYTON
GEOLOGIC PROVINCE CODE...	345	345	355
DEPTH, FEET.....	4999	7299	NOT GIVEN
WELLHEAD PRESSURE, PSIG...	1882	2530	1700
OPEN FLOW, MCFD.....	23302	25776	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	87.1	96.2	81.7
ETHANE.....	2.2	1.6	8.9
PROPANE.....	0.8	0.3	3.8
N-BUTANE.....	0.3	0.0	1.2
ISOBUTANE.....	0.0	0.0	0.5
N-PENTANE.....	0.0	0.0	0.4
ISOPENTANE.....	0.0	0.0	0.4
CYCLOPENTANE.....	0.0	0.0	0.1
HEXANES PLUS.....	0.0	0.0	0.3
NITROGEN.....	9.2	0.6	2.7
OXYGEN.....	0.0	0.1	TRACE
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.2	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	1.3	0.0
HELIUM.....	0.07	0.04	0.06
HEATING VALUE*.....	954	1011	1196
SPECIFIC GRAVITY.....	0.620	0.582	0.698

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	175 14712	INDEX SAMPLE	176 13952	INDEX SAMPLE	177 10420
STATE.....	OKLAHOMA		OKLAHOMA		OKLAHOMA	
COUNTY.....	MAJOR		MAJOR		PITTSBURG	
FIELD.....	CAMPBELL		CHEYENNE VALLEY		KINTA	
WELL NAME.....	HOUMA NO. 1		SUTTER NO. 1		WILLIAM FLOYD NO. 1	
LOCATION.....	SEC. 14, T23N, R16W		SEC. 27, T2N, R13W		SEC. 28, T7N, R10E	
OWNER.....	L. R. FRENCH JR.		L.R. FRENCH, JR.		SKELLY OIL COMPANY	
COMPLETD.....	1n/07/75		06/13/73		02/28/66	
SAMPLED.....	04/28/76		03/13/74		02/28/66	
FORMATION.....	MISS-		DEVO-HUNTON		MISS-RED OAK	
GEOLOGIC PROVINCE CODE...	360		360		345	
DEPTH, FEET.....	7113		8100		7825	
WELLHEAD PRESSURE, PSIG...	1526		3100		2484	
OPEN FLOW, MCFD.....	1168		8000		5374	
COMPONENT, MOLF PCT						
METHANE.....	92.3		61.3		96.3	
ETHANE.....	2.6		16.4		1.6	
PROPANE.....	0.9		11.4		0.6	
N-BUTANE.....	0.4		5.1		0.0	
ISOBUTANE.....	0.1		1.7		0.0	
N-PENTANE.....	0.2		1.6		0.0	
ISOPENTANE.....	0.1		1.0		0.0	
CYCLOPENTANE.....	TRACE		0.2		0.0	
HEXANES PLUS.....	0.1		0.7		0.0	
NITROGEN.....	2.5		0.4		0.4	
OXYGEN.....	0.2		TRACE		0.0	
ARGON.....	TRACE		0.0		0.0	
HYDROGEN.....	0.0		0.0		0.0	
HYDROGEN SULFIDE**.....	0.0		0.0		0.0	
CARBON DIOXIDE.....	0.4		0.2		1.1	
HELIUM.....	0.05		TRACE		0.05	
HEATING VALUE*.....	1040		1595		1020	
SPECIFIC GRAVITY.....	0.606		0.928		0.581	

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11257	INDEX SAMPLE 11260	INDEX SAMPLE 11320
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	PITTSBURG	PITTSBURG	PITTSBURG
FIELD.....	KINTA	MCALISTER	MCALISTER S
WELL NAME.....	WHITE P NO. 1	W. H. STANTON NO. 1	CORONADO A NO. 1
LOCATION.....	SEC. 30, T7N, R18E	SEC. 22, T5N, R14E	SEC. 29, T3N, R13E
OWNER.....	SKELLY OIL CO.	SKELLY OIL CO.	SKELLY OIL CO.
COMPLETED.....	11/13/67	11/14/67	12/05/67
SAMPLED.....	--/--/33	01/25/68	02/29/68
FORMATION.....	PENN-ATOKA	PENN-HARTSHORNE	PENN-ATOKA
GEOLOGIC PROVINCE CODE...	345	345	345
DEPTH, FEET.....	6402	4395	8390
WELLHEAD PRESSURE, PSIG...	2394	677	3630
OPEN FLOW, MCFD.....	14869	1133	6635
COMPONENT, MOLE PCT			
METHANE.....	88.3	90.2	90.4
ETHANE.....	1.6	5.8	3.1
PROPANE.....	0.3	1.7	0.2
N-BUTANE.....	0.0	0.6	0.3
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	1.0
ISOPENTANE.....	0.0	0.0	0.3
CYCLOPENTANE.....	0.0	0.0	0.2
HEXANES PLUS.....	0.0	0.0	0.6
NITROGEN.....	6.9	1.0	2.3
OXYGEN.....	1.7	0.0	0.4
ARGON.....	0.1	0.1	TRACE
HYDROGEN.....	0.0	0.1	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.1	0.5	1.0
HELIUM.....	0.02	0.05	0.04
HEATING VALUE.....	931	1082	1080
SPECIFIC GRAVITY.....	0.615	0.619	0.640

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 181 14540	INDEX SAMPLE 182 14541	INDEX SAMPLE 183 10295
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	PITTSBURG	PITTSBURG	STEPHENS
FIELD.....	REAMS SE	REAMS SE	SHO-VEL-TUM
WELL NAME.....	LAKE NO. 1-32	LAKE NO. 1-32	CROSBIE MUDGE UNIT NO. 4
LOCATION.....	SEC. 32, 17N, R16E	SEC. 32, 17N, R16E	SEC. 23, T1S, R5W
OWNER.....	SWFF & EBERLY	SNEE & EBERLY	SKELLY OIL CO.
COMPLETION.....	06/28/75	06/28/75	08/23/65
SAMPLED.....	12/03/75	12/03/75	11/29/65
FORMATION.....	PENN-HARTSHORNE	PENN-BOOCH	MISS-SYCAMORE
GEOLOGIC PROVINCE CODE...	345	345	350
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	3924
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	NOT GIVEN	1582
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	1000
COMPONENT, MOLE PCT			
METHANE.....	91.0	91.0	87.4
ETHANE.....	5.5	5.4	6.3
PROPANE.....	1.6	1.6	2.3
N-BUTANE.....	0.2	0.3	0.8
ISOBUTANE.....	0.2	0.2	TRACE
N-PENTANE.....	TRACE	TRACE	0.3
ISOPENTANE.....	0.1	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	TRACE	0.1	0.2
NITROGEN.....	0.7	0.6	1.2
OXYGEN.....	0.1	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.7	1.2
HELIUM.....	0.03	0.03	0.03
HEATING VALUE.....	1090	1086	1120
SPECIFIC GRAVITY.....	0.615	0.618	0.654

\* CALCULATED, GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11432	INDEX SAMPLE 7711	INDEX SAMPLE 12858
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	STEPHENS	TEXAS	TEXAS
FIELD.....	STAGE STAND SE	CARTHAGE GAS AREA	HUGOTON, OKLAHOMA
WELL NAME.....	S. J. PINSON NO. 1	ROOFNER NO. A-1	STONEBRAKER Y
LOCATION.....	SEC. 30, 11N, R7W	SEC. 29, 16N, R11ECM	SEC. 9, T2N, R12ECM
OWNER.....	EASON OIL CO.	CITIES SERVICE OIL CO.	CITIES SERVICE OIL CO.
COMPLETED.....	NOT GIVEN	07/26/60	NOT GIVEN
SAMPLED.....	04/05/68	10/17/60	06/23/71
FORMATION.....	PENN-DEESE	PENN-TOPEKA	PERM-CHASE GROUP
GEOLOGIC PROVINCE CODE...	350	360	360
DEPTH, FEET.....	NOT GIVEN	3018	NOT GIVEN
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	414	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	11000	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	87.5	63.0	71.8
ETHANE.....	4.9	6.0	5.8
PROPANE.....	2.8	3.3	4.4
N-BUTANE.....	0.9	1.0	1.0
ISOBUTANE.....	0.3	0.5	0.5
N-PENTANE.....	0.2	0.2	0.2
ISOPENTANE.....	0.3	0.2	0.1
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.1
NITROGEN.....	2.5	23.7	15.4
OXYGEN.....	0.0	0.9	0.0
ARGON.....	TRACE	0.1	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.2	0.0
HELIUM.....	0.05	0.70	0.49
HEATING VALUE*.....	1123	904	1014
SPECIFIC GRAVITY.....	0.652	0.752	0.719

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12059	INDEX SAMPLE 12975	INDEX SAMPLE 15171
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	TEXAS	TEXAS	TEXAS
FIELD.....	HUGOTON, OKLAHOMA	HUGOTON, OKLAHOMA	UNALLOCATED
WELL NAME.....	STONEHAKER AA-1	C. M. REYNOLDS NO. 1	ADUINGTON NO. 1
LOCATION.....	SEC. 10, T2N, R12ECM	SEC. 31, T1N, R11ECM	SEC. 6, T4N, R11ECM
OWNER.....	CITIES SERVICE OIL CO.	SKELLY OIL CO.	KENNEDY & MITCHELL, INC.
COMPLETED.....	NOT GIVEN	NOT GIVEN	11/22/76
SAMPLED.....	06/23/71	08/27/71	12/20/77
FORMATION.....	PERM-CHASE GROUP	PERM-CHASE GROUP	PENN-MARMATON
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	3837
WELLHEAD PRESSURE, PSIG.....	155	NOT GIVEN	515
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	2237
COMPONENT, MOLF PCT			
METHANE.....	70.2	64.5	76.1
ETHANE.....	5.6	5.1	7.7
PROPANE.....	5.7	3.8	4.0
N-BUTANE.....	1.0	1.0	1.2
ISOBUTANE.....	0.5	0.5	0.2
N-PENTANE.....	0.2	0.4	0.3
ISOPENTANE.....	TRACE	0.0	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	18.0	23.3	9.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.1	0.1	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.0	0.1
HELIUM.....	0.56	1.19	0.27
HEATING VALUE**.....	972	916	1095
SPECIFIC GRAVITY.....	0.721	0.743	0.709

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14523	INDEX SAMPLE 14524	INDEX SAMPLE 13358
STATE.....	OKLAHOMA	OKLAHOMA	PENNSYLVANIA
COUNTY.....	WOODS	WOODS	ARMSTRONG
FIELD.....	DACOMA NE	DACOMA NW	ROARING RUN
WELL NAME.....	SCHICK NO. 25A	WHITE NO. 3A	CANTERBURY COAL NO. RR-1
LOCATION.....	SEC. 25, T26N, R13W	SEC. 3, T25N, R13W	SEC. D, ELDERS RIDGE QUAD
OWNER.....	RAN RICKS, JR.	RAN RICKS, JR.	PENNZOIL UNITED, INC.
COMPLETED.....	NOT GIVEN	NOT GIVEN	12/14/70
SAMPLED.....	10/99/75	10/99/75	08/16/72
FORMATION.....	NOT GIVEN	NOT GIVEN	DEVO-ORISKANY
GEOLOGIC PROVINCE CODE...	360	360	160
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	7194
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	NOT GIVEN	3980
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	2170
COMPONENT, MOLE PCT			
METHANE.....	89.2	89.4	96.2
ETHANE.....	5.4	5.3	3.0
PROPANE.....	2.4	2.4	0.2
N-BUTANE.....	0.8	0.7	0.0
ISOBUTANE.....	0.4	0.4	0.0
N-PENTANE.....	0.2	0.2	0.0
ISOPENTANE.....	0.2	0.1	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	0.1	0.1	0.0
NITROGEN.....	1.0	1.3	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.2	0.1
HELIUM.....	0.04	0.04	0.02
HEATING VALUE.....	1125	1118	1033
SPECIFIC GRAVITY.....	0.638	0.637	0.573

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13359	INDEX SAMPLE 15816	INDEX SAMPLE 11030
STATE.....	PENNSYLVANIA	PENNSYLVANIA	TEXAS
COUNTY.....	ARMSTRONG	SOMERSET	ANDERSON
FIELD.....	HOARING RUN	SOMERSET W	LONG LAKE
WELL NAME.....	ASCS UNIT 25200540 NO. 1	S. G. ENGLEKA JR. NO. 1	LONG LAKE PR GAS UNIT NO. 1
LOCATION.....	SEC. A, KISKIMINUTAS QUAD	MURDOCK GUADRANGLE	SIMON SANCHEZ SUR. A-60
OWNER.....	PENNZOIL UNITED, INC.	AMOCO PRODUCTION CO.	HUNT OIL CO.
COMPLETED.....	09/11/71	11/21/77	11/30/66
SAMPLED.....	08/16/72	10/--/79	07/15/67
FORMATION.....	DEVON-CHERT&ORISKANY	DEVON-ORISKANY	CRET-PETTIT
GEOLOGIC PROVINCE CODE...	160	160	260
DEPTH, FEET.....	7300	9086	9765
WELLHEAD PRESSURE, PSIG...	3950	1000	4440
OPEN FLOW, MCFD.....	2600	500	9000
COMPONENT, MOLE PCT			
METHANE.....	95.3	98.0	94.7
ETHANE.....	2.8	1.1	1.0
PROPANE.....	0.2	0.1	0.1
N-BUTANE.....	TRACE	0.0	0.1
ISOBUTANE.....	TRACE	0.0	TRACE
N-PENTANE.....	TRACE	0.0	TRACE
ISOPENTANE.....	TRACE	0.0	0.0
CYCLOPENTANE.....	TRACE	0.0	TRACE
HEXANES PLUS.....	TRACE	0.0	0.1
NITROGEN.....	1.4	0.6	2.3
OXYGEN.....	0.2	0.0	0.1
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.2	1.4
HELIUM.....	0.02	0.04	0.02
HEATING VALUE.....	1921	1015	988
SPECIFIC GRAVITY.....	0.578	0.565	0.587

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12753	INDEX SAMPLE 15144	INDEX SAMPLE 12335
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	ANDREWS	BRAZORIA	BRAZORIA
FIELD.....	FUHRMAN-MASCHO	ALVIN CITY	HASTINGS W
WELL NAME.....	J. W. BOWER B NO. 10	M.C. BAIRD NO. 1	EMIL GROTE NO. 14
LOCATION.....	SEC. 25, BLK. A-43, PSL SUR.	HT&BRR SUR. A-228	NOT GIVEN
OWNER.....	CONTINENTAL OIL CO.	CROWN CENTRAL PETROLEUM	AMOCO PETROLEUM CORP.
COMPLETED.....	05/10/44	06/17/76	07/13/70
SAMPLED.....	04/05/71	11/11/77	07/21/70
FORMATION.....	PERM-GRAYBURG	OLIG-FRIO	MIOC-HASTINGS
GEOLOGIC PROVINCE CODE...	430	220	220
DEPTH, FEET.....	4130	9995	3690
WELLHEAD PRESSURE, PSIG...	50	2475	1512
OPEN FLOW, MCFD.....	NOT GIVEN	6800	16500
COMPONENT, MOLE PCT			
METHANE.....	12.4	95.5	97.3
ETHANE.....	1.8	2.4	0.4
PROPANE.....	0.7	0.7	0.1
N-BUTANE.....	0.2	0.2	0.0
ISOBUTANE.....	0.1	0.1	0.0
N-PENTANE.....	0.1	0.1	0.0
ISOPENTANE.....	0.0	0.1	0.0
CYCLOPENTANE.....	0.1	0.1	0.0
HEXANES PLUS.....	0.2	0.1	0.0
NITROGEN.....	84.0	0.1	0.3
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.1	TRACE	TRACE
HYDROGEN.....	0.2	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.6	1.8
HELIUM.....	0.05	TRACE	0.01
HEATING VALUE*.....	205	1056	995
SPECIFIC GRAVITY.....	0.931	0.592	0.576

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12175	INDEX SAMPLE 200 12513	INDEX SAMPLE 201 10702
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	BROOKS	CALHOUN	CAMERON
FIELD.....	BUDECKER W	POWDERHORN	SAN MARTIN
WELL NAME.....	ED RACHAL FOUNDATION NO. 1	STATE OF TEXAS NO. 15-C	GATEWOOD NEWBERRY NO. 1-L
LOCATION.....	JOSE NAVAZ SUR. 660, A-420	STATE OF TEXAS TRACT NO. 49	SAN MARTIN GRANT
OWNER.....	FOREST OIL CORP.	DOW CHEMICAL CO.	SKELLY OIL CO.
COMPLETED.....	09/01/69	05/16/69	03/03/65
SAMPLED.....	07/--/70	10/21/70	08/26/66
FORMATION.....	OLIG-FRIO	MIOC-2-A SAND	MIOC-
GEOLOGIC PROVINCE CONL.....	220	220	220
DEPTH, FEET.....	7566	4815	9385
WELLHEAD PRESSURE, PSIG.....	2722	1050	4634
OPEN FLOW, MCFD.....	4600	14800	8600
COMPONENT, MOLE PCT			
METHANE.....	92.8	95.2	95.9
ETHANE.....	3.5	3.0	1.9
PROPANE.....	1.2	0.1	0.4
N-BUTANE.....	0.1	0.0	0.0
ISOBUTANE.....	0.2	0.0	0.0
N-PENTANE.....	TRACE	0.0	0.0
ISOPENTANE.....	0.2	0.0	0.0
CYCLOPENTANE.....	TRACE	0.0	0.0
HEXANES PLUS.....	0.1	0.0	0.0
NITROGEN.....	1.5	1.2	1.6
OXYGEN.....	0.2	0.2	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.1	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.1	0.2
HELIUM.....	0.01	0.01	0.01
HEATING VALUE**.....	1058	1021	1016
SPECIFIC GRAVITY.....	0.601	0.576	0.580

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	TEXAS	TEXAS	TEXAS	TEXAS
COUNTY.....	CAMERON	CAMERON	CAMERON	CARSON
FIELD.....	SAN MARTIN	GATEWOOD NEWBERRY NO. 1	VISTA DEL MAR	BOBBITT AREA
WELL NAME.....	H. M. SKELTON SUR. A-269	SKELLY OIL CO.	BROWNSVILLE N.D. NO. 1	LOOTEN NO. 1
LOCATION.....	COMPLETED.....	03/03/65	SAN MARTIN GRANT, A-6	SEC. 86, BLK. 2, T1RR SUR.
OWNER.....	10/13/66	MIOC-	ATLANTIC RICHFIELD CO.	HUNTER OIL CORP.
SAMPLED.....	220	7212	12/01/73	10/23/73
FORMATION.....	96.0	1200	02/20/76	10/23/73
GEOLOGIC PROVINCE CODE.....	1.7	11300	MIOC-	PERM-WICHITA-ALBANY
DEPTH, FEET.....	0.3	96.1	220	440
WELLHEAD PRESSURE, PSIG.....	0.0	1.8	7212	3342
OPEN FLOW, MCFD.....	0.0	0.3	1200	487
COMPONENT, MOLT PCT	0.0	0.0	11300	100
METHANE.....	0.0	0.0		
ETHANE.....	0.0	0.0		
PROPANE.....	0.0	0.0		
N-BUTANE.....	0.0	0.0		
ISOBUTANE.....	0.0	0.0		
N-PENTANE.....	0.0	0.0		
ISOPENTANE.....	0.0	0.0		
CYCLOPENTANE.....	0.0	0.0		
HEXANES PLUS.....	0.0	0.0		
NITROGEN.....	1.5	0.0		
OXYGEN.....	0.1	1.5		
ARGON.....	TRACE	TRACE		
HYDROGEN.....	0.0	0.0		
HYDROGEN SULFIDE**.....	0.0	0.0		
CARBON DIOXIDE.....	0.4	0.0		
HELIUM.....	0.01	0.01		
HEATING VALUE.....	1011	1014		
SPECIFIC GRAVITY.....	0.576	0.574		

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE DESCRIPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13779	INDEX SAMPLE 10072	INDEX SAMPLE 11947
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	CARSON	CHAMBERS	CLAY
FIELD.....	ROHRITT AREA	OYSTER BAYOU	DILLARD SW
WELL NAME.....	LOOTEN NO. 1	FELIX JACKSON NO. 51	HARVILL NO. 1
LOCATION.....	SEC. 86, BLK. 2, T1RR SUR.	ANASTACIO YBARBO A-30	SEC. 76, WOOD CSL SUR. A705
OWNER.....	HUNTER OIL CORP.	SUN OIL CO.	LONGHORN PRODUCTION CO.
COMPLETED.....	10/23/73	02/02/64	06/24/68
SAMPLED.....	10/25/73	08/19/65	07/03/67
FORMATION.....	PERM-NICHITA-ALBANY	OLIG-HACKBERRY A	PENN-MARBLE FALLS
GEOLOGIC PROVINCE CODE...	440	220	420
DEPTH, FEET.....	3304	9264	5782
WELLHEAD PRESSURE, PSIG...	475	4940	800
OPEN FLOW, MCFD.....	250	100	1200
COMPONENT, MOLE PCT			
METHANE.....	59.1	93.8	67.4
ETHANE.....	2.0	3.2	12.8
PROPANE.....	0.5	0.9	9.6
N-BUTANE.....	0.0	0.3	2.5
ISOBUTANE.....	0.0	0.2	1.0
N-PENTANE.....	0.0	0.1	0.6
ISOPENTANE.....	0.0	0.1	0.4
CYCLOPENTANE.....	0.0	TRACE	0.2
HEXANES PLUS.....	0.0	0.1	0.5
NITROGEN.....	33.9	0.8	4.8
OXYGEN.....	TRACE	0.0	TRACE
ARGON.....	0.1	TRACE	0.0
HYDROGEN.....	TRACE	0.0	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.6	0.3	0.1
HELIUM.....	1.74	0.25	0.09
HEATING VALUE*.....	647	1061	1355
SPECIFIC GRAVITY.....	0.728	0.599	0.823

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11669	INDEX SAMPLE 14195	INDEX SAMPLE 15000
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	COLORADO	COLORADO	COLORADO
FIELD.....	COLUMBUS	GLIDDEN	KAINER
WELL NAME.....	UNIT NO. 10-14	J. T. JOHNSON NO.1	KAINER & JOHNSON NO. 1
LOCATION.....	J. TUNLISON SUR. A-46	DANIEL GILLELAND SUR. A-26	B. RATCLIFF SUR. A-894
OWNER.....	CITIES SERVICE OIL CO.	SUPERIOR OIL CO.	PETRO LEWIS CORP.
COMPLETED.....	03/07/68	04/23/73	01/31/74
SAMPLED.....	10/14/68	10/25/74	05/10/77
FORMATION.....	EOCE-WILCOX	EOCE-WILCOX	EOCE-YEGUA
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	7252	10297	6165
WELLHEAD PRESSURE, PSIG...	3175	4680	2310
OPEN FLOW, WCFD.....	64000	12950	6600
COMPONENT, MOLE PCT			
METHANE.....	82.6	87.8	88.7
ETHANE.....	4.9	4.6	6.0
PROPANE.....	2.8	2.2	2.4
N-BUTANE.....	0.7	0.5	0.6
ISOBUTANE.....	0.6	0.6	0.5
N-PENTANE.....	0.2	0.1	0.2
ISOPENTANE.....	0.3	0.4	0.3
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.3	0.2
NITROGEN.....	5.2	0.2	0.5
OXYGEN.....	1.1	0.0	TRACE
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.1	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.3	3.1	0.4
HELIUM.....	0.02	0.01	0.01
HEATING VALUE*.....	1077	1106	1141
SPECIFIC GRAVITY.....	0.683	0.665	0.647

\* CALCULATED GROSS BTU PER CU FT. DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 211 8881	INDEX SAMPLE 212 14667	INDEX SAMPLE 213 12770
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	CONCHO	COTTE	CROCKETT
FIELD.....	NOT GIVEN	PROVIDENCE	OZONA
WELL NAME.....	CARTER NO. A-1	B. J. BROWNING NO. 1	VADA BEAN NO. 1
LOCATION.....	SUR. 276, A279	SEC. 2, P.B. BROTHERS SUR.	10 MI. SW OF OZONA
OWNER.....	SUNRAY D-X OIL CO.	JACK GRIMM	ATLANTIC RICHFIELD CO.
COMPLETED.....	NOT GIVEN	NOT GIVEN	--/--/65
SAMPLED.....	02/27/63	05/06/76	04/20/71
FORMATION.....	NOT GIVEN	NOT GIVEN	PENN-CANYON
GEOLOGIC PROVINCE CODE...	410	435	430
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	6229
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	NOT GIVEN	1075
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	244
COMPONENT, MOLE PCT			
METHANE.....	66.3	80.7	78.8
ETHANE.....	11.1	10.2	11.1
PROPANE.....	7.9	4.4	5.6
N-BUTANE.....	3.1	1.0	1.2
ISOBUTANE.....	1.2	0.6	0.6
N-PENTANE.....	0.7	0.1	0.3
ISOPENTANE.....	0.6	0.3	0.2
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.5	0.1	0.1
NITROGEN.....	7.1	2.2	1.6
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	0.1	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.1	0.2	0.4
HELIUM.....	0.30	0.09	0.04
HEATING VALUE.....	1306	1191	1230
SPECIFIC GRAVITY.....	0.833	0.693	0.715

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 214 12772	INDEX SAMPLE 215 12775	INDEX SAMPLE 216 13610
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	CROCKETT	CROCKETT	DE WITT
FIELD.....	OZONA	OZONA	BALFOUR
WELL NAME.....	J. R. BAILEY NO. 1	ADDIE CLAYTON NO. 1	MUSSELMAN CATTLE CO. NO. 1
LOCATION.....	20 MI. NE OF OZONA	20 MI. NE OF OZONA	A.J. HOUSE SUR. A-743
OWNER.....	ATLANTIC RICHFIELD CO.	ATLANTIC RICHFIELD CO.	B.D.K. PRODUCTION CO.
COMPLETED.....	--/--/66	--/--/66	11/08/70
SAMPLED.....	04/20/71	04/20/71	05/24/73
FORMATION.....	PENN-CANYON	PENN-CANYON	EOCE-YEGUA
GEOLOGIC PROVINCE CODE.....	430	430	220
DEPTH, FEET.....	7698	7455	5392
WELLHEAD PRESSURE, PSIG.....	150	150	1325
OPEN FLOW, MCFD.....	25	495	2477
COMPONENT, MOLE PCT			
METHANE.....	71.9	78.0	88.5
ETHANE.....	14.5	10.8	5.5
PROPANE.....	6.8	5.3	3.0
N-BUTANE.....	2.2	0.9	0.7
ISOBUTANE.....	1.0	0.9	0.7
N-PENTANE.....	0.4	0.3	0.1
ISOPENTANE.....	TRACE	0.3	0.4
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.2	0.1
NITROGEN.....	2.3	2.7	0.7
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.1	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.6	0.3
HELIUM.....	0.04	0.07	0.01
HEATING VALUE*.....	1304	1218	1146
SPECIFIC GRAVITY.....	0.774	0.722	0.651

\* CALCULATED GROSS BTU PLR CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 3. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13611	INDEX SAMPLE 12156	INDEX SAMPLE 14258
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	DE WITT	DE WITT	DEWITT
FIELD.....	BALFOUR	YORKTOWN S	FRIAR RANCH W
WELL NAME.....	MUSSELMAN CATTLE CO. NO. 1	OSCAR O. JOCHEN NO. 1	STILES CATTLE CO. NO. 1
LOCATION.....	A-J-HOUSE SUR. A-743	G. H. WOOD SUR. 45, A482	JOHN DALEY SUR. A-11
OWNER.....	B-O.K. PRODUCTION CO.	QUINTANA PETROLEUM CORP.	COASTAL STATES GAS PROD. CO.
COMPLETED.....	11/08/70	09/25/68	02/05/73
SAMPLED.....	05/24/73	12/18/69	02/10/75
FORMATION.....	OLIG-VICKSBURG	EOCE-WILCOX	EOCE-WILCOX
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	3320	9930	9890
WELLHEAD PRESSURE, PSIG.....	940	2863	2394
OPEN FLOW, FCFD.....	7799	3250	13100
COMPONENT, MOLE PCT			
METHANE.....	99.2	85.5	79.2
ETHANE.....	0.1	6.2	6.8
PROPANE.....	TRACE	2.4	6.0
N-BUTANE.....	0.0	0.5	1.5
ISOBUTANE.....	0.0	0.4	1.2
N-PENTANE.....	0.0	0.1	0.2
ISOPENTANE.....	0.0	0.2	0.5
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	0.1	0.1
NITROGEN.....	0.4	1.1	0.5
OXYGEN.....	0.0	0.1	TRACE
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	3.1	3.8
HELIUM.....	0.01	0.05	0.01
HEATING VALUE.....	1007	1088	1206
SPECIFIC GRAVITY.....	0.558	0.665	0.743

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 9171	INDEX SAMPLE 14580	INDEX SAMPLE 222 12662
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	DUVAL	EDWARDS	FRANKLIN
FIELD.....	NOT GIVEN	COMPANARO E	W. A. MONCRIEF
WELL NAME.....	ADLEE PARK A NO. 4	PHILLIPS NO. 2	J. M. MITCHELL NO. 1
LOCATION.....	ANDRES GARCIA SAN ANDRES GR1	SEC. 3, BLK 16, GC&SFRR SUR.	S. S. PAYNE SUR. A-366
OWNER.....	SUPERIOR OIL CO.	NORTH AMERICAN ROYALTIES, INC	WESTLAND OIL DEVELOPMENT
COMPLETED.....	NOT GIVEN	04/12/74	05/11/68
SAMPLED.....	11/14/63	02/11/76	01/29/71
FORMATION.....	NOT GIVEN	PENN-CANYON	JURA-SMACKOVER
GEOLOGIC PROVINCE CODE...	220	430	260
DEPTH, FEET.....	NOT GIVEN	3179	12200
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	680	2880
OPEN FLOW, MCFD.....	NOT GIVEN	2800	63000
COMPONENT, MOLE PCT			
METHANE.....	90.7	89.8	34.3
ETHANE.....	4.7	2.8	6.3
PROPANE.....	1.9	1.5	3.7
N-BUTANE.....	0.6	0.3	1.5
ISOBUTANE.....	0.6	0.4	1.4
N-PENTANE.....	0.1	0.1	0.6
ISOPENTANE.....	0.3	0.1	0.5
CYCLOPENTANE.....	0.1	TRACE	0.2
HEXANES PLUS.....	0.2	0.1	0.8
NITROGEN.....	0.6	4.6	47.4
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.2	3.2
HELIUM.....	0.01	0.19	0.10
HEATING VALUE*.....	1063	1036	750
SPECIFIC GRAVITY.....	0.634	0.621	0.938

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	223 12663	INDEX SAMPLE	224 11619	INDEX SAMPLE	225 11620
STATE.....	TEXAS		TEXAS		TEXAS	
COUNTY.....	FRANKLIN		FREESTONE		FREESTONE	
FIELD.....	W. A. MONCHIEF		REED		REED	
WELL NAME.....	MARY L. STANLEY NO. 1		RUBY MIDDLETON NO. 1		RUBY MIDDLETON NO. 1	
LOCATION.....	W. B. JORDAN SUR. A-581		A. ANGLIN SUR. A-46		A. ANGLIN SUR. A-46	
OWNER.....	WESTLAND OIL DEVELOPMENT		TEXACO INC.		TEXACO INC.	
COMPLETED.....	09/14/68		05/27/67		05/27/67	
SAMPLED.....	01/29/71		08/06/68		08/06/68	
FORMATION.....	JURA-SNACKOVER		CRET-RODESSA		JURA-HAYNESVILLE	
GEOLOGIC PROVINCE COUF.....	260		260		260	
DEPTH, FEET.....	12200		7255		11837	
WELLHEAD PRESSURE, PSIG.....	2808		1815		6000	
OPEN FLOW, PCFD.....	15000		3355		1671	
COMPONENT, MOLE PCT						
METHANE.....	31.9		89.9		94.5	
ETHANE.....	5.8		3.7		1.4	
PROPANE.....	3.6		2.5		0.4	
N-BUTANE.....	1.3		1.1		0.2	
ISOBUTANE.....	1.3		0.5		TRACE	
N-PENTANE.....	0.5		0.2		0.3	
ISOPENTANE.....	0.2		0.4		0.0	
CYCLOPENTANE.....	0.1		0.1		0.1	
HEXANES PLUS.....	0.4		0.3		0.2	
NITROGEN.....	51.8		0.3		0.4	
OXYGEN.....	0.0		0.0		0.0	
ARGON.....	TRACE		TRACE		TRACE	
HYDROGEN.....	0.0		0.0		0.0	
HYDROGEN SULFIDE**.....	9.0		0.0		0.0	
CARBON DIOXIDE.....	3.2		1.0		2.4	
HELIUM.....	0.10		0.02		0.01	
HEATING VALUE.....	662		1141		1026	
SPECIFIC GRAVITY.....	0.929		0.654		0.605	

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	TEXAS	TEXAS	TEXAS	TEXAS
COUNTY.....	GALVESTON	GALVESTON	GALVESTON	GALVESTON
FIELD.....	ALSOA	HASTING SE	HASTING SE	HASTING SE
WELL NAME.....	ALLEN UNIT NO. 1	A. J. EASTHAM NO. 1	A. J. EASTHAM NO. 1	A. J. EASTHAM NO. 1
LOCATION.....	I&N RR SUR. A-600	SEC. 5, I&NRR SUR. A-622	SEC. 5, I&NRR SUR. A-622	SEC. 5, I&NRR SUR. A-622
OWNER.....	GOODALE, BERITMAN & CO., INC.	SUPERIOR OIL CO.	SUPERIOR OIL CO.	SUPERIOR OIL CO.
COMPLETED.....	03/30/69	04/07/76	04/07/76	04/07/76
SAMPLED.....	NOT GIVEN	12/28/76	12/28/76	12/28/76
FORMATION.....	OLIG-FRIO	OLIG-F-46, SEG. A	OLIG-F-46, SEG. A	OLIG-F-47, SEG. A
GEOLOGIC PROVINCE CODE...	220	220	220	220
DEPTH, FEET.....	10240	9702	9837	9837
WELLHEAD PRESSURE, PSIG...	1600	3550	3150	3150
OPEN FLOW, MCFD.....	110000	8000	8407	8407
COMPONENT, MOLE PCT				
METHANE.....	93.7	93.2	92.0	92.0
ETHANE.....	2.3	4.1	4.3	4.3
PROPANE.....	0.7	1.0	1.3	1.3
N-BUTANE.....	0.1	0.3	0.3	0.3
ISOBUTANE.....	0.1	0.2	0.2	0.2
N-PENTANE.....	0.1	0.1	0.1	0.1
ISOPENTANE.....	0.0	0.1	0.2	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1	0.1
NITROGEN.....	1.5	0.1	0.2	0.2
OXYGEN.....	0.3	0.0	TRACE	TRACE
ARGON.....	TRACE	TRACE	TRACE	TRACE
HYDROGEN.....	0.1	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	0.7	1.1	1.1
HELIUM.....	TRACE	TRACE	TRACE	TRACE
HEATING VALUE*.....	1025	1074	1077	1077
SPECIFIC GRAVITY.....	0.596	0.605	0.615	0.615

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14977	INDEX SAMPLE 230 15464	INDEX SAMPLE 231 12511
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	GALVESTON	GOLIAD	GOLIAD
FIELD.....	HASTING SE	BIG OAK	CLIP
WELL NAME.....	EMMA RUEGE NO. 1	W. P. PITTMAN NO. 1	B. B. GAYLE NO. 5-F
LOCATION.....	SEC. 5, BS8F SUR., A-625	MARIA JESUS DELEON SUR. A-22	IGNACIO GUJARDO SUR. A-127
OWNER.....	CROWN CENTRAL PETROLEUM	LIGHTNING OIL CO.	DOW CHEMICAL CO.
COMPLETED.....	06/05/75	09/20/77	12/19/68
SAMPLED.....	04/--/77	10/31/78	11/03/70
FORMATION.....	OLIG-FRIO	OLIG-FRIO	OLIG-FRIO
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	9266	2585	2684
WELLHEAD PRESSURE, PSIG...	3400	950	957
OPEN FLOW, MCFD.....	12000	5000	4030
COMPONENT, MOLE PCT			
METHANE.....	92.7	98.2	97.7
ETHANE.....	3.9	0.1	0.0
PROPANE.....	1.2	TRACE	TRACE
N-BUTANE.....	0.3	0.0	0.0
ISOBUTANE.....	0.5	0.0	0.0
N-PENTANE.....	0.1	0.0	0.0
ISOPENTANE.....	0.2	0.0	0.0
CYCLOPENTANE.....	0.1	0.0	0.0
HEXANES PLUS.....	0.2	0.0	0.0
NITROGEN.....	0.4	1.3	1.6
OXYGEN.....	0.0	0.0	0.2
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.4	0.2
HELIUM.....	TRACE	0.01	0.01
HEATING VALUE*.....	1087	997	990
SPECIFIC GRAVITY.....	0.615	0.569	0.562

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12512	INDEX SAMPLE 12514	INDEX SAMPLE 234 13540
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	GOLIAD	GOLIAD	GOLIAD
FIELD.....	CLIP	CLIP	SWICKHEIMER
WELL NAME.....	B. B. GAYLE NO. 5-H	H. B. GAYLE NO. 5-J	G.G. SWICKHEIMER NO. 2
LOCATION.....	IGNACIO GUARJARDO SUR. A-127	IGNACIO GUARJARDO SUR. A-127	J.P. FERRELL SUR. A-356
OWNER.....	DOW CHEMICAL CO.	DOW CHEMICAL CO.	INEXCO OIL CO.
COMPLETED.....	12/19/68	10/30/70	01/22/71
SAMPLED.....	11/03/70	11/03/70	02/20/73
FORMATION.....	OLIG-FRIO U	MIOC-L	OLIG-FRIO
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	2246	1500	2759
WELLHEAD PRESSURE, PSIG.....	787	590	1005
OPEN FLOW, MCF/D.....	8400	1500	1460
COMPONENT, MOLE PER CENT			
METHANE.....	99.2	97.0	98.2
ETHANE.....	0.0	0.0	0.1
PROPANE.....	TRACE	TRACE	TRACE
N-BUTANE.....	0.0	0.0	TRACE
ISOBUTANE.....	0.0	0.0	TRACE
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	TRACE
CYCLOPENTANE.....	0.0	0.0	TRACE
HEXANES PLUS.....	0.0	0.0	TRACE
NITROGEN.....	0.4	2.8	1.4
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.1	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	TRACE	0.2
HELIUM.....	0.01	0.01	0.01
HEATING VALUE**.....	1005	983	997
SPECIFIC GRAVITY.....	0.558	0.565	0.562

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	TEXAS	TEXAS	TEXAS	TEXAS
COUNTY.....	GRAYSON	GREGG	GREGG	GREGG
FIELD.....	NEW MAG	WILLOW SPRINGS	WILLOW SPRINGS	WILLOW SPRINGS
WELL NAME.....	NEW MAG	J. M. ROBERTSON NO. 3	J. M. ROBERTSON NO. 3	E. D. ROBERTSON NO. A-2
LOCATION.....	NOT GIVEN	A. FERGUSON SUR. A-75	A. FERGUSON SUR. A-75	ALEXANDER-FERGUSON SUR. A-76
OWNER.....	CHEVRON OIL CO.	LONE STAR PRODUCING CO.	LONE STAR PRODUCING CO.	LONE STAR PRODUCING CO.
COMPLETED.....	07/28/61	10/29/69	10/29/69	02/23/59
SAMPLED.....	11/27/70	12/18/70	12/18/70	12/16/70
FORMATION.....	OKHIO-OJLCREEK	CRET-TRAVIS PEAK	CRET-TRAVIS PEAK	CRET-PETIT
GEOLOGIC PROVINCE CODE...	350	260	260	260
DEPTH, FEET.....	12776	7451	7451	7294
WELLHEAD PRESSURE, PSIG...	4200	2938	2938	560
OPEN FLOW, MCFD.....	3860	4028	4028	1761
COMPONENT, MOLE PCT				
METHANE.....	84.3	91.9	91.9	90.6
ETHANE.....	8.2	3.8	3.8	4.3
PROPANE.....	4.3	0.9	0.9	1.4
N-BUTANE.....	0.8	0.2	0.2	0.5
ISOBUTANE.....	0.5	0.3	0.3	0.5
N-PENTANE.....	0.2	0.1	0.1	0.2
ISOPENTANE.....	TRACE	0.0	0.0	0.1
CYCLOPENTANE.....	0.1	TRACE	TRACE	0.1
HEXANES PLUS.....	0.2	0.3	0.3	0.4
NITROGEN.....	1.1	1.3	1.3	0.8
OXYGEN.....	0.1	TRACE	TRACE	0.0
ARGON.....	0.0	0.0	0.0	TRACE
HYDROGEN.....	0.1	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	1.1	1.1	1.1
HELIUM.....	0.03	0.01	0.01	0.01
HEATING VALUE.....	1179	1059	1059	1102
SPECIFIC GRAVITY.....	0.672	0.615	0.615	0.636

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12596	INDEX SAMPLE 13917	INDEX SAMPLE 13798
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	GREGG	HANSFORD	HARRIS
FIELD.....	WILLOW SPRINGS	HART RANCH	GREENS BAYOU
WELL NAME.....	B. A. SKIPPER NO. B-1	HART NO. 1	HCHSC NAV. DSTR. NO. 1
LOCATION.....	MARSHALL-MANN SUR. A-256	SEC. 5, BLK. 5-T, T&NO SUR.	RICHARD ROBERT VINCE SUR A76
OWNER.....	LOWE STAR PRODUCING CO.	COLORADO INTERSTATE GAS CO.	INEXCO OIL CO.
COMPLETED.....	NOT GIVEN	NOT GIVEN	02/20/72
SAMPLED.....	12/16/70	02/18/74	11/05/73
FORMATION.....	CRET-RODESSA	PENN-CLEVELAND	OLIG-FRIO & VICKSBURG
GEOLOGIC PROVINCE CODE...	260	360	220
DEPTH, FEET.....	7326	5994	7024
WELLHEAD PRESSURE, PSIG...	476	1390	2687
OPEN FLOW, MCFD.....	8500	3300	15000
COMPONENT, MOLE PCT			
METHANE.....	84.6	85.2	79.3
ETHANE.....	4.3	6.9	9.7
PROPANE.....	1.7	3.6	5.7
N-BUTANE.....	0.7	1.1	1.5
ISOBUTANE.....	0.8	0.4	1.6
N-PENTANE.....	0.5	0.2	0.3
ISOPENTANE.....	0.1	0.3	0.8
CYCLOPENTANE.....	0.1	TRACE	0.2
HEXANES PLUS.....	0.6	0.1	0.4
NITROGEN.....	1.5	1.9	0.3
OXYGEN.....	0.2	TRACE	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.1	0.2	0.3
HELIUM.....	0.01	0.13	TRACE
HEATING VALUE**.....	1129	1157	1304
SPECIFIC GRAVITY.....	0.663	0.669	0.746

\* CALCULATED GROSS BTU PER CU FT. DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	TEXAS	TEXAS	TEXAS	TEXAS
COUNTY.....	HEMPHILL	HEMPHILL	HEMPHILL	HEMPHILL
FIELD.....	BUFFALO HOLLOW	CANADIAN W	CANADIAN W	CIRCLE DOT
WELL NAME.....	MEERS NO. 1-54	JOHN C. ISAACS JR. "J" NO. 2	JOHN C. ISAACS JR. "J" NO. 2	NAPECO LOCKE NO. 1
LOCATION.....	SEC. 54, BLK. M1, H&GN SUR.	SEC. 2, BLK. A, LOUT SUR.	SEC. 2, BLK. A, LOUT SUR.	SEC. 85, BLK. M1, H&GN SUR.
OWNER.....	NORTHERN NATURAL GAS EXPL.	DIAMOND SHAHROCK CORP.	DIAMOND SHAHROCK CORP.	NAPECO, INC.
COMPLETED.....	03/11/76	02/04/76	02/04/76	NOT GIVEN
SAMPLED.....	02/26/76	03/05/76	03/05/76	08/31/79
FORMATION.....	PERM-GRANITE WASH	PENN-MORROW	PENN-MORROW	PENN-MORROW
GEOLOGIC PROVINCE CODE.....	360	360	360	360
DEPTH, FEET.....	11271	13069	13069	13982
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	4395	4395	NOT GIVEN
OPEN FLOW, PCFD.....	21000	11800	11800	5700
COMPONENT, MOLT PCT				
METHANE.....	85.2	95.5	95.5	95.3
ETHANE.....	4.6	1.0	1.0	1.9
PROPANE.....	3.5	0.1	0.1	0.4
N-BUTANE.....	0.7	TRACE	TRACE	0.1
ISOBUTANE.....	0.5	TRACE	TRACE	0.1
N-PENTANE.....	0.1	TRACE	TRACE	TRACE
ISOPENTANE.....	0.2	TRACE	TRACE	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	TRACE	TRACE	0.1
NITROGEN.....	0.8	0.3	0.3	0.7
OXYGEN.....	0.0	TRACE	TRACE	0.1
ARGON.....	0.0	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	TRACE	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	2.8	2.8	1.2
HELIUM.....	0.04	0.03	0.03	0.03
HEATING VALUE.....	1141	988	988	1026
SPECIFIC GRAVITY.....	0.663	0.587	0.587	0.590

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 244 10847	INDEX SAMPLE 245 14801	INDEX SAMPLE 246 9920
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HEMPHILL	HEMPHILL	HEMPHILL
FIELD.....	FELDMAN	MATHERS	MCQUIDDY
WELL NAME.....	MCQUIDDY B NO. 1	MATHERS NO. 1	MCQUIDDY A NO. 2
LOCATION.....	SEC. 3, BLK. 1, G&M SUR.	SEC. 132, BLK. 42, H&TC SUR.	JOHN GATES SUR.
OWNER.....	PHILLIPS PETROLEUM CO.	NATURAL GAS ANADARKO, INC.	PHILLIPS PETROLEUM CO.
COMPLETED.....	06/08/66	02/12/76	02/02/65
SAMPLED.....	01/23/67	10/08/76	06/13/65
FORMATION.....	PENN-DOUGLAS	PENN-DOUGLAS	PENN-DOUGLAS
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	7332	6249	7228
WELLHEAD PRESSURE, PSIG...	1808	1563	1781
OPEN FLOW, MCFD.....	20500	6900	5300
COMPONENT, MOLE PCT			
METHANE.....	82.1	76.2	83.0
ETHANE.....	9.3	10.5	8.6
PROPANE.....	4.4	6.1	3.7
N-BUTANE.....	1.1	1.6	0.9
ISOBUTANE.....	0.5	0.6	0.6
N-PENTANE.....	0.3	0.3	0.1
ISOPENTANE.....	0.3	0.3	0.3
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.2	0.2	0.1
NITROGEN.....	1.4	3.7	1.8
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.2	0.8
HELIUM.....	0.08	0.17	0.09
HEATING VALUE*.....	1206	1232	1164
SPECIFIC GRAVITY.....	0.696	0.736	0.682

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	TEXAS	TEXAS	TEXAS	TEXAS
COUNTY.....	HEMPHILL	HEMPHILL	HEMPHILL	HEMPHILL
FIELD.....	NOT GIVEN	PARSELL SE	PARSELL SE	RAMP
WELL NAME.....	RAMP NO. 1	MITCHELL UNIT NO. 1	MITCHELL UNIT NO. 1	N. C. PYEATT NO. 1
LOCATION.....	SEC. 26, BLK. 41, H&TC SUR.	SEC. 12A, BLK. 42, H&TC SUR.	SEC. 12A, BLK. 42, H&TC SUR.	SEC. 51, BLK. A-1, H&GN SUR.
OWNER.....	WESSELY ENERGY CORP.	PETROLEUM INC.	PETROLEUM INC.	SUN OIL CO.
COMPLETED.....	10/23/75	06/11/75	06/11/75	11/22/66
SAMPLED.....	02/15/77	03/10/77	03/10/77	02/09/67
FORMATION.....	NOT GIVEN	PENN-MORROW U	PENN-MORROW U	PENN-
GEOLOGIC PROVINCE CODE.....	460	460	460	360
DEPTH, FEET.....	11729	10343	10343	11172
WELLHEAD PRESSURE, PSIG.....	7321	3576	3576	3155
OPEN FLOW, MCFD.....	6350	3100	3100	4396
COMPONENT, MOLE PCT				
METHANE.....	40.9	86.5	86.5	66.5
ETHANE.....	5.8	7.9	7.9	12.6
PROPANE.....	1.6	2.8	2.8	8.4
N-BUTANE.....	0.3	0.6	0.6	4.3
ISOBUTANE.....	0.4	0.5	0.5	2.1
N-PENTANE.....	0.0	0.2	0.2	1.0
ISOPEPTANE.....	0.1	0.2	0.2	2.1
CYCLOPENTANE.....	TRACE	0.1	0.1	0.4
HEXANES PLUS.....	TRACE	0.2	0.2	1.1
NITROGEN.....	0.4	TRACE	TRACE	1.2
OXYGEN.....	0.0	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	0.9	0.9	0.3
HELIUM.....	0.02	0.04	0.04	0.02
HEATING VALUE.....	1094	1159	1159	1537
SPECIFIC GRAVITY.....	0.618	0.661	0.661	0.905

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX 250 SAMPLE 15805	INDEX 251 SAMPLE 12614	INDEX 252 SAMPLE 12615
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HEMPHILL	HENDERSON	HENDERSON
FIELD.....	SMOOKS	OPELIKA	OPELIKA
WELL NAME.....	MATHERS NO. 1	C. H. ALLYN NO. 1-C	G.W. WOFFORD NO. 1
LOCATION.....	SEC. 132, BLK. 42, H&TC SUR.	ADRIAN ANGLIN SOUTH SUR.	G. ACOSTA SUR.
OWNER.....	NATURAL GAS ANADARKO, INC.	LONE STAR PRODUCING CO.	LONE STAR PRODUCING CO.
COMPLETED.....	03/25/79	NOT GIVEN	NOT GIVEN
SAMPLED.....	10/12/79	12/29/70	12/29/70
FORMATION.....	PENIN-MORROW	CRET-ROUESSA	CRET-TRAVIS PEAK
GEOLOGIC PROVINCE CODE.....	360	260	260
DEPTH, FEET.....	11188	7850	9049
WELLHEAD PRESSURE, PSIG.....	5115	500	1150
OPEN FLOW, MCFD.....	5300	37172	5400
COMPONENT, MOLE PCT			
METHANE.....	96.8	82.9	90.5
ETHANE.....	0.8	4.3	2.8
PROPANE.....	0.2	1.7	0.8
N-BUTANE.....	0.0	0.5	0.2
ISOBUTANE.....	0.0	0.5	0.4
N-PENTANE.....	0.0	0.3	TRACE
ISOPENTANE.....	0.0	0.0	0.1
CYCLOPENTANE.....	0.0	0.1	TRACE
HEXANES PLUS.....	0.0	0.4	0.2
NITROGEN.....	0.4	6.6	3.2
OXYGEN.....	0.0	1.3	0.6
ARGON.....	TRACE	0.1	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.9	1.5	1.1
HELIUM.....	0.03	0.03	0.02
HEATING VALUE*.....	1000	1032	1022
SPECIFIC GRAVITY.....	0.581	0.676	0.619

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	TEXAS	TEXAS	TEXAS	TEXAS
COUNTY.....	HENDERSON	HENDERSON	HENDERSON	HENDERSON
FIELD.....	HELIKA	HELIKA	HELIKA	HELIKA
WELL NAME.....	J. S. EDWARDS NO. 1	J. S. EDWARDS NO. 1	J. S. EDWARDS NO. 1	J. S. EDWARDS NO. 1
LOCATION.....	J. GRAFF SUR.	J. GRAFF SUR.	J. GRAFF SUR.	J. GRAFF SUR.
OWNER.....	LONE STAR PRODUCING CO.	LONE STAR PRODUCING CO.	LONE STAR PRODUCING CO.	LONE STAR PRODUCING CO.
COMPLETION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	12/29/70	12/29/70	12/29/70	12/29/70
FORMATION.....	CRET-PEITIT	CRET-PEITIT	CRET-PEITIT	CRET-PEITIT
DEPTH, FEET.....	9574	9574	9574	9574
WELLHEAD PRESSURE, PSIG.....	600	600	600	600
OPEN FLOW, MCFD.....	400000	400000	400000	400000
COMPONENT, MOLE PCT				
METHANE.....	85.5	85.5	85.5	85.5
ETHANE.....	3.9	3.9	3.9	3.9
PROPANE.....	1.5	1.5	1.5	1.5
N-BUTANE.....	0.5	0.5	0.5	0.5
ISOBUTANE.....	0.5	0.5	0.5	0.5
N-PENTANE.....	0.2	0.2	0.2	0.2
ISOPENTANE.....	0.1	0.1	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.3	0.3	0.3	0.3
NITROGEN.....	5.4	5.4	5.4	5.4
OXYGEN.....	1.2	1.2	1.2	1.2
ARGON.....	TRACE	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0	0.0
CARBON DIOXIDE.....	1.0	1.0	1.0	1.0
HELIUM.....	0.01	0.01	0.01	0.01
HEATING VALUE.....	1037	1037	1037	1037
SPECIFIC GRAVITY.....	0.656	0.656	0.656	0.656

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12587	INDEX SAMPLE 12588	INDEX SAMPLE 12589
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HIDALGO	HIDALGO	HIDALGO
FIELD.....	JEFFRESS	JEFFRESS	JEFFRESS
WELL NAME.....	J. D. JEFFRESS ESTATE NO. 1	G. G. ZAMORA ST. OF TEX NO.1	PETER VAN SCHERPE JR. NO.2
LOCATION.....	F. H. KIRKBRIDE SUR. 488	W. D. PARCHMAN SUR. 883	M. CANO PORC. 45, A-58
OWNER.....	COASTAL STATES GAS PROD. CO.	COASTAL STATES GAS PROD. CO.	COASTAL STATES GAS PROD. CO.
COMPLETED.....	04/14/69	09/15/69	05/15/69
SAMPLED.....	NOT GIVEN	12/--/70	12/--/70
FORMATION.....	OLIG-VICKSBURG U	OLIG-VICKSBURG T	OLIG-6300" SD.
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	11318	9694	6298
WELLHEAD PRESSURE, PSIG...	4296	6215	3540
OPEN FLOW, MCFD.....	37600	14000	9400
COMPONENT, MOLE PCT			
METHANE.....	88.6	90.6	54.5
ETHANE.....	5.9	5.6	3.4
PROPANE.....	1.8	1.8	1.2
N-BUTANE.....	0.2	0.4	0.5
ISOBUTANE.....	0.6	0.6	0.6
N-PENTANE.....	0.0	0.1	0.3
ISOPENTANE.....	0.1	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.3
NITROGEN.....	0.9	0.6	20.0
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	0.2
HYDROGEN.....	0.0	0.0	8.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.8	0.1	10.7
HELIUM.....	TRACE	TRACE	0.01
HEATING VALUE**.....	1096	1117	744
SPECIFIC GRAVITY.....	0.639	0.628	0.766

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 259 13862	INDEX SAMPLE 260 13863	INDEX SAMPLE 261 13871
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HIDALGO	HIDALGO	HIDALGO
FIELD.....	MCALLEN KANCH	MCCOOK E	SAL-DEL-REY
WELL NAME.....	A.A. MCALLEN NO. 32	T.H. THESIS NO. 1	H.SCHALEBEN NO. 1
LOCATION.....	SAN RAMON GRANT	SEC. 6. LGE. 2. NEWMAN'S SUB	NOT GIVEN
OWNER.....	SHELL OIL CO.	SHELL OIL CO.	GEORGE MITCHELL & ASSOC. INC
COMPLETED.....	08/30/72	03/04/72	09/16/71
SAMPLED.....	01/14/73	01/14/74	01/18/74
FORMATION.....	OLIG-VICKSBURG	OLIG-VICKSBURG	OLIG-FRIO
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	2398	12081	8031
WELLHEAD PRESSURE, PSIG...	9436	9140	2940
OPEN FLOW, MCF/D.....	20500	63000	7800
COMPONENT, MOLE PCT			
METHANE.....	89.0	90.7	96.0
ETHANE.....	6.3	5.6	2.3
PROPANE.....	2.2	1.7	0.4
N-BUTANE.....	0.5	0.3	TRACE
ISOBUTANE.....	0.8	0.6	0.2
N-PENTANE.....	0.1	0.1	TRACE
ISOPENTANE.....	0.3	0.2	0.0
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.3	0.2	0.1
NITROGEN.....	0.5	0.3	0.9
OXYGEN.....	0.0	0.0	0.1
ARGON.....	0.0	0.0	0.1
HYDROGEN.....	TRACE	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.2	TRACE
HELIUM.....	TRACE	TRACE	0.01
HEATING VALUE.....	1148	1117	1036
SPECIFIC GRAVITY.....	0.646	0.626	0.579

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14786	INDEX SAMPLE 13577	INDEX SAMPLE 264 11250
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HOUSTON	HUTCHINSON	IRION
FIELD.....	IRVINGITY	NOT GIVEN	DOVE CREEK
WELL NAME.....	SOUTHLAND PAPER MILLS NO. 1	JACKSON NO. A-1	WINTERBOTHAM D NO. 1
LOCATION.....	S. P. GLENN SUR. A-472	SEC. 71, BLK. R, 88B SUR.	SEC. 27, BLK. 21, H8TC SUR.
OWNER.....	ARLOUR PROPERTIES	LEAR PETROLEUM CORP.	SKELLY OIL CO.
COMPLETED.....	01/30/75	NOT GIVEN	04/14/66
SAMPLED.....	03/--/76	04/16/75	12/28/67
FORMATION.....	CKET-MOODBINE	PENN-MORROW L	PENN-CANYON C
GEOLOGIC PROVINCE CODE.....	260	440	430
DEPTH, FEET.....	8562	NOT GIVEN	6432
WELLHEAD PRESSURE, PSIG.....	3262	NOT GIVEN	2190
OPEN FLOW, MCFD.....	15300	NOT GIVEN	3100
COMPONENT, MOLE PCT			
METHANE.....	79.6	92.0	74.4
ETHANE.....	6.4	3.9	9.7
PROPANE.....	0.9	1.7	4.9
N-BUTANE.....	0.2	0.4	1.3
ISOBUTANE.....	0.1	0.3	0.5
N-PENTANE.....	TRACE	0.1	0.3
ISOPENTANE.....	0.1	0.2	0.7
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	12.3	0.1	0.3
NITROGEN.....	1.0	0.6	7.3
OXYGEN.....	0.1	0.0	0.0
ARGON.....	0.1	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.2	0.4	0.4
HELIUM.....	0.02	0.09	0.14
HEATING VALUE*.....	905	1091	1177
SPECIFIC GRAVITY.....	0.665	0.619	0.741

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 11251	INDEX SAMPLE 15446	INDEX SAMPLE 267 13929
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	IRION	JACKSON	JACKSON
WELL.....	DOVE CREEK	CARANCHAJA E	GANADO
WELL NAME.....	WINTERHOOTHAM D NO. 1	R. R. THULL NO. 2	BERTHA COPSEY NO. 3
LOCATION.....	SEC. 27, HLK. 21, H&TC SUR.	PATRICK GREEN SUR. A-25	GEORGE SOUTHERLAND SUR. A-75
OWNER.....	SKELLY OIL CO.	DOW CHEMICAL CO.	R. H. ENGELKE
COMPLETED.....	03/14/66	10/22/76	12/20/72
SAMPLED.....	12/28/67	10/19/78	02/26/74
FORMATION.....	PENNY-CANYON D	MIOC-	OLIG-FRIO
GEOLOGIC PROVINCE CODE...	430	220	220
DEPTH, FEET.....	6473	1873	5678
WELLHEAD PRESSURE, PSIG...	2245	810	1943
OPEN FLOW, MCFD.....	4600	8600	8500
COMPONENT, MOLE PCT			
METHANE.....	75.6	91.6	98.9
ETHANE.....	9.4	3.6	0.1
PROPANE.....	4.1	1.7	0.1
N-BUTANE.....	1.1	0.4	0.0
ISOBUTANE.....	0.5	0.7	0.0
N-PENTANE.....	0.3	0.1	0.0
ISOPENTANE.....	0.3	0.3	0.0
CYCLOPENTANE.....	0.1	0.3	0.0
HEXANES PLUS.....	0.3	0.5	0.0
NITROGEN.....	7.7	0.7	1.0
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.1	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.1	TRACE
HELIUM.....	0.16	0.01	0.01
HEATING VALUE*.....	1140	1128	1006
SPECIFIC GRAVITY.....	0.722	0.635	0.561

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 15581	INDEX SAMPLE 15582	INDEX SAMPLE 270 10125
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	JACKSON	JACKSON	JACKSON
FIELD.....	LA WARD N	LA WARD N	MAUDE B. TRAYLOR N
WELL NAME.....	T. A. GRAVES NO. 5	T. A. GRAVES NO. 5	W. L. TRAYLOR NO. 2
LOCATION.....	PATRICK SCOTT SUR. A-69	PATRICK SCOTT SUR. A-69	HUGH MCGUFFIN SUR. A-43
OWNER.....	PETRO-LEWIS CORP.	PETRO-LEWIS CORP.	SUPERIOR OIL CO.
COMPLETED.....	03/05/77	03/03/77	11/12/63
SAMPLED.....	03/19/79	NOT GIVEN	09/16/65
FORMATION.....	OLIG-FRIO	OLIG-FRIO	OLIG-FRIO JO
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	5856	6092	9210
WELLHEAD PRESSURE*PSIG.....	2000	2125	NOT GIVEN
OPEN FLOW, BCFD.....	9400	19500	7904
COMPONENT, MOLE PCT			
METHANE.....	94.2	93.8	87.5
ETHANE.....	3.2	2.9	6.9
PROPANE.....	0.8	1.2	2.2
N-BUTANE.....	0.3	0.3	0.5
ISOBUTANE.....	0.3	0.3	0.6
N-PENTANE.....	0.1	0.1	0.2
ISOPENTANE.....	0.3	0.2	0.1
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.2	0.1	0.4
NITROGEN.....	0.3	0.6	0.7
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.3	0.8
HELIUM.....	0.01	0.01	0.01
HEATING VALUE*.....	1044	1076	1141
SPECIFIC GRAVITY.....	0.605	0.605	0.655

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 15181	INDEX SAMPLE 14894	INDEX SAMPLE 273 13494
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	JACKSON	JEFFERSON	JEFFERSON
FIELD.....	SANDY CREEK	GILBERT RANCH	HIGH ISLAND
WELL NAME.....	W. B. FOWLER NO. 5	GILBERT ESTATE NO. 1	TEXAS BLOCK 14-L NO. 1
LOCATION.....	S.C.A. ROGERS SUR. A-65	JOHN RICORD SUR. A-189	TEXAS BLOCK 14-L OFFSHORE
OWNER.....	FRED W. SHIELD	KILROY CO. OF TEXAS, INC.	SUPERIOR OIL CO.
COMPLETED.....	07/06/75	11/15/74	11/30/71
SAMPLED.....	01/05/78	01/30/77	12/20/72
FORMATION.....	OLIG-FRIO	OLIG-NODOSARIA	MIOC-
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	4705	8632	9426
WELLHEAD PRESSURE, PSIG...	1800	2251	3590
OPEN FLOW, MCFD.....	13500	25304	14700
COMPONENT, MOLE PCT			
METHANE.....	97.5	93.3	94.5
ETHANE.....	1.1	3.4	3.1
PROPANE.....	0.3	1.3	0.8
N-BUTANE.....	0.1	0.4	0.2
ISOBUTANE.....	0.0	0.4	0.3
N-PENTANE.....	0.1	0.2	0.1
ISOPENTANE.....	0.1	0.2	TRACE
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.2	0.4	0.4
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.3	0.5
HELIUM.....	0.01	TRACE	TRACE
HEATING VALUE**.....	1036	1089	1060
SPECIFIC GRAVITY.....	0.577	0.611	0.596

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 274 13495	INDEX SAMPLE 275 10827	INDEX SAMPLE 276 13872
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	JEFFERSON	LAMB	LAVACA
FIELD.....	HIGH ISLAND	WILDCAT	VIENNA
WELL NAME.....	TEXAS BLOCK 14-L NO. 1	EVA WELLS NO. 1	JOE KAHANAK NO. 3
LOCATION.....	TEXAS BLOCK 14-L OFFSHORE	STATE CAPITOL LANDS	M. MULDOON SUR. A-34
OWNER.....	SUPERIOR OIL CO.	VAUGHN PETROLEUM CO.	GEORGE MITCHELL & ASSOC. INC
COMPLETED.....	11/30/71	NOT GIVEN	03/28/73
SAMPLED.....	12/20/72	NOT GIVEN	01/18/74
FORMATION.....	MIOC-	NOT GIVEN	OLIG-FRIO
GEOLOGIC PROVINCE CODE...	220	435	220
DEPTH, FEET.....	10077	2615	3243
WELLHEAD PRESSURE, PSIG...	5405	NOT GIVEN	1385
OPEN FLOW, MCF/D.....	122000	NOT GIVEN	16000
COMPONENT, MOLE PCT			
METHANE.....	93.0	0.2	99.2
ETHANE.....	3.1	0.0	0.1
PROPANE.....	0.8	0.0	TRACE
N-BUTANE.....	0.1	0.0	0.0
ISOBUTANE.....	0.3	0.0	0.0
N-PENTANE.....	TRACE	0.0	0.0
ISOPENTANE.....	TRACE	0.0	0.0
CYCLOPENTANE.....	TRACE	0.0	0.0
HEXANES PLUS.....	0.1	0.0	0.0
NITROGEN.....	1.8	99.2	0.3
OXYGEN.....	0.3	0.2	TRACE
ARGON.....	TRACE	0.1	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.3	0.3
HELIUM.....	TRACE	0.00	0.01
HEATING VALUE**.....	1037	2	1007
SPECIFIC GRAVITY.....	0.599	0.969	0.559

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	TEXAS	TEXAS	TEXAS	TEXAS
COUNTY.....	LAVACA	LEON	LEON	LEON
FIELD.....	WORN N	HUFFALO	HUFFALO	HUFFALO
WELL NAME.....	ANNIE BROWN ET AL. NO. 1	EMMA B. PAGE NO. 1	EMMA B. PAGE NO. 1	PAGE ESTATE NO. C-1
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	SUPERIOR OIL CO.	LONG STAR PRODUCING CO.	LONG STAR PRODUCING CO.	LONG STAR PRODUCING CO.
COMPLETED.....	06/09/72	NOT GIVEN	NOT GIVEN	02/13/51
SAMPLED.....	12/27/73	12/08/70	12/08/70	12/08/70
FORMATION.....	EOCE-WILCOX	CRET-WOODBINE	CRET-WOODBINE	CRET-RODESSA
GEOLOGIC PROVINCE CODE...	220	260	260	260
DEPTH, FEET.....	8115	5496	5496	8799
WELLHEAD PRESSURE, PSIG...	2818	1400	1400	1240
OPEN FLOW, MCFD.....	14800	NOT GIVEN	NOT GIVEN	1476
COMPONENT, MOLF PCT				
METHANE.....	85.4	97.6	97.6	91.6
ETHANE.....	6.4	0.7	0.7	0.8
PROPANE.....	3.5	0.4	0.4	0.2
N-BUTANE.....	0.8	0.0	0.0	0.0
ISOBUTANE.....	0.8	0.0	0.0	0.0
N-PENTANE.....	0.1	0.0	0.0	0.0
ISOPENTANE.....	0.3	0.0	0.0	0.0
CYCLOPENTANE.....	TRACE	0.0	0.0	0.0
HEXANES PLUS.....	0.1	0.0	0.0	0.0
NITROGEN.....	0.3	0.6	0.6	4.3
OXYGEN.....	TRACE	0.0	0.0	0.9
ARGON.....	0.0	TRACE	TRACE	0.1
HYDROGEN.....	0.0	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0	0.0
CARBON DIOXIDE.....	2.1	0.6	0.6	2.0
HELIUM.....	0.01	0.01	0.01	0.01
HEATING VALUE**.....	1147	1012	1012	947
SPECIFIC GRAVITY.....	0.676	0.570	0.570	0.603

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12574	INDEX SAMPLE 13404	INDEX SAMPLE 14983
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	LEON	LIBERTY	LIPSCOMB
FIELD.....	OAKWOOD	QUINN	BRADFORD
WELL NAME.....	C. M. HALEY	U.S. PLYWOOD ET AL NO. 1	OLA O. PIPER NO. 3
LOCATION.....	NOT GIVEN	REUBIN HARROW SUR. A-136	SEC. 688, BLK. 43, H&TC SUR.
OWNER.....	LONE STAR PRODUCING CO.	MCCORMICK OIL & GAS CORP.	DIAMOND SHAMROCK CORP.
COMPLETED.....	12/07/61	06/30/71	02/02/77
SAMPLED.....	12/08/70	09/26/72	05/01/77
FORMATION.....	CRET-WOODBINE	EOCE-YEGUA	PENN-MORROW
GEOLOGIC PROVINCE CODE...	260	220	360
DEPTH, FEET.....	5814	7524	9859
WELLHEAD PRESSURE, PSIG...	1400	1270	3090
OPEN FLOW, MCFD.....	2840	13000	1800
COMPONENT, MOLE PCT			
METHANE.....	95.3	88.0	96.3
ETHANE.....	1.8	5.7	1.1
PROPANE.....	0.7	2.2	0.2
N-BUTANE.....	0.2	0.5	0.1
ISOBUTANE.....	0.3	0.4	0.1
N-PENTANE.....	TRACE	0.1	TRACE
ISOPENTANE.....	TRACE	0.1	TRACE
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	TRACE
NITROGEN.....	0.8	1.6	0.4
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	1.1	1.6
HELIUM.....	0.02	0.01	0.06
HEATING VALUE*.....	1047	1095	1007
SPECIFIC GRAVITY.....	0.594	0.641	0.581

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	283 14984	INDEX SAMPLE	284 9900	INDEX SAMPLE	285 8691
STATE.....	TEXAS		TEXAS		TEXAS	
COUNTY.....	LIPSCOMB		LIPSCOMB		LIPSCOMB	
FIELD.....	BRAEFORD		HIGGINS S		HIGGINS W	
WELL NAME.....	OLA O. PIPER NO. 3		ROY SANSING NO. 1		LILLIAN M. ADDIE NO. 1	
LOCATION.....	SEC. 68A, BLK. 43, H&TC SUR.		SEC. 88, BLK. 43, H&TC SUR.		SEC. 161, BLK. 43, H&TC SUR.	
OWNER.....	DIAMOND SHAMROCK CORP.		HUMBLE OIL & REFINING CO.		HUMBLE OIL & REFINING CO.	
COMPLETED.....	02/02/77		03/22/65		04/10/62	
SAMPLED.....	05/01/77		05/19/65		10/03/62	
FORMATION.....	PENN-CLIFVELAND		PENN-TONKAWA		MISS-	
GEOLOGIC PROVINCE CODE...	360		360		360	
DEPTH, FEET.....	7646		7584		11539	
WELLHEAD PRESSURE, PSIG...	2075		NOT GIVEN		3986	
OPEN FLOW, MCFD.....	6000		7500		8300	
COMPONENT, MOLE PCT						
METHANE.....	90.4		83.4		96.6	
ETHANE.....	5.8		5.6		0.7	
PROPANE.....	1.5		4.5		0.1	
N-BUTANE.....	0.4		1.0		0.1	
ISOBUTANE.....	TRACE		0.7		TRACE	
N-PENTANE.....	0.1		TRACE		0.0	
ISOPENTANE.....	0.1		0.3		0.0	
CYCLOPENTANE.....	TRACE		TRACE		0.0	
HEXANES PLUS.....	0.1		TRACE		0.0	
NITROGEN.....	0.8		3.9		0.3	
OXYGEN.....	0.1		0.0		0.0	
ARGON.....	TRACE		0.0		0.0	
HYDROGEN.....	0.0		0.0		0.1	
HYDROGEN SULFIDE**.....	0.0		0.0		0.0	
CARBON DIOXIDE.....	0.5		0.4		2.2	
HELIUM.....	0.05		0.11		TRACE	
HEATING VALUE**.....	1088		1132		997	
SPECIFIC GRAVITY.....	0.620		0.678		0.583	

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 286 8951	INDEX SAMPLE 287 14236	INDEX SAMPLE 288 14738
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	LIPSCOMB	LIPSCOMB	LIPSCOMB
FIELD.....	HIGGINS W	HIGGINS W	HORSE CREEK NW
WELL NAME.....	JESS R. BUSSARD NO. 1	MAY M. WRIGHT E NO. 1-163	BROADDUS NO. 1
LOCATION.....	SEC. 162, BLK. 43, H&TC SUR.	SEC. 163, BLK. 43, H&TC SUR.	SEC. 293, BLK. 43, H&TC SUR.
OWNER.....	HUMBLE OIL & REFINING CO.	DIAMOND SHAMROCK CORP.	DIAMOND SHAMROCK CORP.
COMPLETED.....	01/31/63	10/01/74	NOT GIVEN
SAMPLED.....	05/01/63	11/24/74	08/19/76
FORMATION.....	PENN-MORROW	PENN-MORROW	PENN-MORROW
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	10544	10660	10920
WELLHEAD PRESSURE, PSIG...	3776	3950	3580
OPEN FLOW, MCFD.....	23500	5200	4500
COMPONENT, MOLE PCT			
METHANE.....	90.2	88.8	96.9
ETHANE.....	5.9	6.1	1.2
PROPANE.....	1.5	1.8	0.3
N-BUTANE.....	0.4	0.2	0.0
ISOBUTANE.....	TRACE	0.4	0.0
N-PENTANE.....	TRACE	0.0	0.0
ISOPENTANE.....	0.3	0.6	0.0
CYCLOPENTANE.....	0.1	0.3	0.0
HEXANES PLUS.....	0.1	0.4	0.0
NITROGEN.....	0.5	0.5	0.5
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	0.9	0.9
HELIUM.....	0.05	0.04	0.04
HEATING VALUE*.....	1094	1133	1011
SPECIFIC GRAVITY.....	0.625	0.649	0.573

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	TEXAS	TEXAS	TEXAS	TEXAS
COUNTY.....	LIPSCOMB	LIPSCOMB	LIPSCOMB	LIPSCOMB
FIELD.....	NORTRUP	NOT GIVEN	NOT GIVEN	WILDCAT
WELL NAME.....	WALLACE N. HAMKER NO. 1	BENSCH NO. 1	BENSCH NO. 1	REDELSPERGER NO. 1
LOCATION.....	SEC. 589, BLK. 43, H&TC SUR.	SEC. 946, BLK. 43, H&TC SUR.	SEC. 946, BLK. 43, H&TC SUR.	SEC. 900, BLK 43, H&TC SUR.
OWNER.....	DIAMOND SHAMROCK CORP.	COTTON PETROLEUM CO.	COTTON PETROLEUM CO.	COTTON PETROLEUM CORP.
COMPLETED.....	11/25/75	NOT GIVEN	NOT GIVEN	04/17/73
SAMPLED.....	03/04/76	12/05/79	12/05/79	10/30/73
FORMATION.....	PENN-CLEVELAND	PENN-CLEVELAND	PENN-CLEVELAND	PENN-CLEVELAND
GEOLOGIC PROVINCE CODE...	360	360	360	360
DEPTH, FEET.....	7495	7600	7600	7516
WELLHEAD PRESSURE, PSIG...	1815	1400	1400	1802
OPEN FLOW, MCFD.....	6500	1350	1350	2700
COMPONENT, MOLE PCT				
METHANE.....	85.7	86.0	86.0	85.7
ETHANE.....	6.5	5.9	5.9	6.1
PROPANE.....	3.6	3.7	3.7	4.2
N-BUTANE.....	1.1	1.1	1.1	1.1
ISOBUTANE.....	0.5	0.4	0.4	0.5
N-PENTANE.....	0.2	0.3	0.3	0.2
ISOPENTANE.....	0.4	0.3	0.3	0.3
CYCLOPENTANE.....	TRACE	0.1	0.1	TRACE
HEXANES PLUS.....	0.1	0.2	0.2	0.1
NITROGEN.....	1.2	1.5	1.5	1.3
OXYGEN.....	0.0	TRACE	TRACE	TRACE
ARGON.....	0.0	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.3	0.3	0.3
HELIUM.....	0.10	0.11	0.11	0.11
HEATING VALUE*.....	1163	1163	1163	1167
SPECIFIC GRAVITY.....	0.668	0.670	0.670	0.670

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ASSUMPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14249	INDEX SAMPLE 13356	INDEX SAMPLE 294 12108
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	LIPSCOMB	LIVE OAK	MATAGORDA
FIELD.....	WILCOAT	MAXINE NE	LUCKY W
WELL NAME.....	ALEX BORN ET AL NO. A-1	CHARLES LINDHOLM NO. 1	R. P. DAWDY NO. 1-A
LOCATION.....	SEC. 332, BLK. 43, H&TC SUR.	R. W. FANT SUR, A615	BOWMAN & REESE SUR. A-8
OWNER.....	DIAMOND SHAMROCK CORP.	PRAIRIE PRODUCING CO.	J. M. HUBER CORP.
COMPLETED.....	11/19/74	11/11/71	06/09/68
SAMPLED.....	12/28/74	08/18/72	11/09/69
FORMATION.....	PERMIAN-CLEVELAND	EOCE-WILCOX	OLIG-FRIO F-12
GEOLOGIC PROVINCE CODE...	360	220	220
DEPTH, FEET.....	8140	8010	9202
WELLHEAD PRESSURE, PSIG...	1947	3825	3300
OPEN FLOW, MCF/D.....	13000	6600	7000
COMPONENT, MOLE PCT			
METHANE.....	82.6	84.6	92.7
ETHANE.....	7.8	7.2	3.0
PROPANE.....	4.6	4.1	1.3
N-BUTANE.....	1.4	0.9	0.3
ISOBUTANE.....	0.7	0.7	0.2
N-PENTANE.....	0.3	0.2	0.1
ISOPENTANE.....	0.4	0.2	0.2
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.3	0.1	0.1
NITROGEN.....	1.3	0.5	0.9
OXYGEN.....	TRACE	0.1	TRACE
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.2
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	1.4	0.7
HELIUM.....	0.10	TRACE	TRACE
HEATING VALUE**.....	1216	1168	1062
SPECIFIC GRAVITY.....	0.703	0.682	0.606

\* CALCULATED GROSS HTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	TEXAS	TEXAS	TEXAS	TEXAS
COUNTY.....	HATAGORDA	MIDLAND	MONTGOMERY	MONTGOMERY
FIELD.....	PETRUCHA	WAR-SAN	PAUL NELSON W	PAUL NELSON W
WELL NAME.....	GUGOLD GAS UNIT NO. 2	MIDLAND A FEE NO. 5	CHARLES M. THOMAS NO. 1	CHARLES M. THOMAS NO. 1
LOCATION.....	GUGOLD MCFARLAND SUR. A-61	NOT GIVEN	WILLIAM WILLS SUR. A-594	WILLIAM WILLS SUR. A-594
OWNER.....	AMOCO PRODUCTION CO.	TEXACO INC.	MCCORMICK OIL & GAS CORP.	MCCORMICK OIL & GAS CORP.
COMPLETED.....	03/02/71	NOT GIVEN	06/24/71	06/24/71
SAMPLED.....	10/03/72	04/28/71	09/26/72	09/26/72
FORMATION.....	OLIG-FRIO	DEVO-	EOCE-YEGUA	EOCE-YEGUA
GEOLOGIC PROVINCE CODE...	220	430	220	220
DEPTH, FEET.....	12645	11893	7556	7556
WELLHEAD PRESSURE, PSIG...	7339	1508	1465	1465
OPEN FLOW, MCFD.....	10288	1240	20800	20800
COMPONENT, MOLE PCT				
METHANE.....	89.9	61.4	85.3	85.3
ETHANE.....	4.8	18.0	6.6	6.6
PROPANE.....	1.9	11.7	2.7	2.7
N-BUTANE.....	0.4	3.4	0.6	0.6
ISOBUTANE.....	0.4	1.3	0.5	0.5
N-PENTANE.....	0.1	0.6	0.1	0.1
ISOPENTANE.....	0.1	0.6	0.1	0.1
CYCLOPENTANE.....	TRACE	0.1	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.1	0.1
NITROGEN.....	0.2	1.8	3.0	3.0
OXYGEN.....	TRACE	0.0	0.1	0.1
ARGON.....	0.0	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0	0.0
CARBON DIOXIDE.....	1.9	0.7	0.9	0.9
HEATING VALUE.....	1087	0.02	0.01	0.01
SPECIFIC GRAVITY.....	0.634	1472	1103	1103
		0.875	0.659	0.659

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 298 13541	INDEX SAMPLE 299 14318	INDEX SAMPLE 300 13223
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	MACONDOCHES	OCHILTREE	OCHILTREE
FIELD.....	DOUGLASS	BULER N	PAN PETRO
WELL NAME.....	CROSSMAN "A" NO. 1	GLORIA GRIFFIN NO. 1	URBAN NO. 1
LOCATION.....	JEFFERSON WILSON SUR. A-59	SEC. 67, BLK. 13, T&NO SUR.	SEC. 93, BLK. 13, T&NO SUR.
OWNER.....	INEXCO OIL CO.	COTTON PETROLEUM CORP.	COTTON PETROLEUM CO.
COMPLETED.....	10/05/72	NOT GIVEN	12/15/71
SAMPLED.....	02/--/73	04/16/75	05/31/72
FORMATION.....	CRET-PEITIT U	PENN-MORROW	PENN-MORROW U
GEOLOGIC PROVINCE CODE.....	260	8501	360
DEPTH, FEET.....	8972	2102	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	3874	2620	1400
OPEN FLOW, MCFD.....	2500		10500
COMPONENT, MOLE PCT			
METHANE.....	96.4	85.5	88.0
ETHANE.....	1.1	6.4	6.5
PROPANE.....	0.3	3.7	2.7
N-BUTANE.....	0.1	0.9	0.6
ISOBUTANE.....	0.1	0.4	0.2
N-PENTANE.....	TRACE	0.1	0.1
ISOPENTANE.....	TRACE	0.3	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.5	1.9	0.9
OXYGEN.....	0.2	0.2	TRACE
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.4	0.4	0.5
HELIUM.....	0.01	0.08	0.12
HEATING VALUE*.....	1016	1143	1123
SPECIFIC GRAVITY.....	0.584	0.665	0.642

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 15295	INDEX SAMPLE 12653	INDEX SAMPLE 303 12654
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	OGHLA TREE	PARKER	PARKER
FIELD.....	WYATT	MEEKER	MEEKER
WELL NAME.....	LESLIE NO. 1	O. E. DOSS	ED W. PEARSON
LOCATION.....	SEC. 134, BK. 43, H&TC SUR.	NOT GIVEN	NOT GIVEN
OWNER.....	HORIZON O & G CO. OF TEXAS	MEEKER & CO.	MEEKER & CO.
COMPLETED.....	10/23/77	NOT GIVEN	NOT GIVEN
SAMPLED.....	05/30/78	01/30/71	01/30/70
FORMATION.....	PENN-MORROW	PENN-ATOKA U	PENN-BRYSON
GEOLOGIC PROVINCE CODE...	360	420	420
DEPTH, FEET.....	10072	3850	2200
WELLHEAD PRESSURE, PSIG...	3523	500	500
OPEN FLOW, MCFD.....	2800	NOT GIVEN	600
COMPONENT, MOLE PCT			
METHANE.....	22.9	79.2	86.1
ETHANE.....	16.6	8.1	4.1
PROPANE.....	27.0	5.5	2.1
N-BUTANE.....	14.6	1.4	0.6
ISOBUTANE.....	6.7	0.9	0.3
N-PENTANE.....	3.8	0.5	0.1
ISOPENTANE.....	5.3	0.3	0.1
CYCLOPENTANE.....	0.4	0.1	TRACE
HEXANES PLUS.....	2.3	0.3	0.1
NITROGEN.....	0.0	3.2	6.0
OXYGEN.....	0.1	TRACE	0.1
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	0.4	0.2
HELIUM.....	TRACE	0.14	0.25
HEATING VALUE**.....	2471	1221	1044
SPECIFIC GRAVITY.....	1.477	0.726	0.642

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12655	INDEX SAMPLE 14638	INDEX SAMPLE 12115
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	PARKER	PECOS	PECOS
FIELD.....	WEEKER	DAMERON	NOT GIVEN
WELL NAME.....	A. F. BOYD NO. B	SIDLO NO. 2	NEAL ESTATE NO. 1
LOCATION.....	NOT GIVEN	SEC. 18, BLK. 3, H&TC SUR.	SEC. 14, BLK. 142, T&STL SUR
OWNER.....	WEEKER & CO.	GEORGE H. MITCHELL	WM. MOSS PROPERTIES, INC.
COMPLETED.....	NOT GIVEN	08/13/74	12/11/68
SAMPLED.....	01/30/71	04/19/76	11/15/69
FORMATION.....	PENN-ATOKA L	PERM-CLEARFORK	PERM-CAPTAN
GEOLOGIC PROVINCE CODE...	420	430	430
DEPTH, FEET.....	4000	3227	3060
WELLHEAD PRESSURE, PSIG...	600	1000	1200
OPEN FLOW, MCFD.....	200	3800	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	81.5	89.5	88.8
ETHANE.....	8.0	5.2	3.5
PROPANE.....	4.8	1.7	1.1
N-BUTANE.....	1.0	0.5	0.2
ISOBUTANE.....	0.5	0.2	0.1
N-PENTANE.....	0.3	0.1	0.2
ISOPENTANE.....	0.1	0.1	TRACE
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	3.3	0.8	5.2
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	1.0	0.0
CARBON DIOXIDE.....	0.1	0.7	0.4
HELIUM.....	0.15	0.01	0.04
HEATING VALUE**.....	1175	1088	1020
SPECIFIC GRAVITY.....	0.694	0.630	0.620

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12116	INDEX SAMPLE 13091	INDEX SAMPLE 13092
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	PECOS	PECOS	PECOS
FIELD.....	NOT GIVEN	PECOS	PECOS
WELL NAME.....	NEAL ESTATE NO. 1	NEAL ESTATE NO. 1	NEAL ESTATE NO. 1
LOCATION.....	SEC. 14, BLK. 142, T8STL SUR	SEC. 22, HLK. 142, T8STL RR SUR.	SEC. 22, HLK. 142, T8STL RR SUR.
OWNER.....	WM. MOSS PROPERTIES, INC.	THE PETROLEUM CORP.	THE PETROLEUM CORP.
COMPLETED.....	12/11/64	05/17/70	05/17/70
SAMPLED.....	11/15/69	10/21/71	10/21/71
FORMATION.....	PERM-AYTES	DEVON	ORDO-ELLENBURGER
GEOLOGIC PROVINCE CODE.....	430	430	430
DEPTH, FEET.....	2845	11128	13717
WELLHEAD PRESSURE, PSIG.....	1500	4031	4818
OPEN FLOW, MCFD.....	5000	15500	22200
COMPONENT, MOLE PCT			
METHANE.....	87.7	92.7	96.1
ETHANE.....	3.6	3.0	1.6
PROPANE.....	1.5	1.0	0.5
N-BUTANE.....	0.4	0.4	0.2
ISOBUTANE.....	TRACE	0.1	0.1
N-PENTANE.....	0.4	0.1	0.1
ISOPENTANE.....	0.0	0.1	0.1
CYCLOPENTANE.....	0.2	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	6.0	1.6	0.7
OXYGEN.....	0.0	0.1	0.0
ARGON.....	0.0	TRACE	0.2
HYDROGEN.....	0.1	TRACE	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.6	0.4
HELIUM.....	0.05	0.02	0.03
HEATING VALUE.....	1035	1049	1039
SPECIFIC GRAVITY.....	0.632	0.605	0.587

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12756	INDEX SAMPLE 12812	INDEX SAMPLE 13783
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	PECOS	PECOS	POLK
FIELD.....	PUCKETT N	TCI	SEVEN OAKS N
WELL NAME.....	H. A. WIMBERLY NO. 2	O. W. WILLIAMS NET-11	SOUTHLAND PAPER MILLS NO.8-2
LOCATION.....	SEC. 4, BLK. 100	SEC. 13, BLK. 3, H&TC SUR.	H+TC RR SUR. A-314
OWNER.....	HASSIE HUNT TRUST	TEXACO INC.	GEORGE MITCHELL & ASSOC.
COMPLETED.....	--/--/62	NOT GIVEN	06/08/72
SAMPLED.....	04/06/71	04/30/71	10/26/73
FORMATION.....	ORDO-ELLENBURGER	PERM-GRAYBURG	CRET-WOODBINE
GEOLOGIC PROVINCE CODE.....	430	430	220
DEPTH, FEET.....	10004	2084	12450
WELLHEAD PRESSURE, PSIG.....	2750	376	2200
OPEN FLOW, MCFD.....	11400	340	3425
COMPONENT, MOLE PCT			
METHANE.....	91.9	85.1	74.5
ETHANE.....	2.6	6.7	8.2
PROPANE.....	1.0	2.5	5.3
N-BUTANE.....	0.3	0.7	2.2
ISOBUTANE.....	0.2	0.2	1.9
N-PENTANE.....	0.2	0.3	1.1
ISOPENTANE.....	TRACE	0.1	1.3
CYCLOPENTANE.....	TRACE	0.1	0.4
HEXANES PLUS.....	0.2	0.2	1.4
NITROGEN.....	1.7	1.8	0.3
OXYGEN.....	0.0	TRACE	TRACE
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	1.2	0.0
CARBON DIOXIDE.....	1.8	1.1	3.3
HELIUM.....	0.05	0.02	0.01
HEATING VALUE**.....	1039	1116	1367
SPECIFIC GRAVITY.....	0.618	0.667	0.831

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 313 A388	INDEX SAMPLE 314 11549	INDEX SAMPLE 315 11777
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	POTTER	POTTER	POTTER
FIELD.....	NOT GIVEN	PANHANDLE W/RED CAVE	PANHANDLE W/RED CAVE
WELL NAME.....	BEVINS NO. 2R	BEVINS 30R	BEVINS 33R
LOCATION.....	SEC. 21, BLK. 0-18, D&P SUR.	SEC. 31, BLK. 0-18, D&P SUR.	SEC. 72, BLK. 0-18, D&P SUR.
OWNER.....	COLORADO INTERSTATE GAS CO.	COLORADO INTERSTATE GAS CO.	COLORADO INTERSTATE GAS CO.
COMPLETION.....	NOT GIVEN	NOT GIVEN	02/13/69
SAMPLED.....	01/31/62	NOT GIVEN	02/27/69
FORMATION.....	NOT GIVEN	440	PERM-RED CAVE
GEOLOGIC PROVINC.....	440	700	440
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	2069
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	800	319
OPEN FLOW, MCFD.....	NOT GIVEN		5600
COMPONENT, MOLE PCT			
METHANE.....	77.4	72.2	72.8
ETHANE.....	8.2	5.1	9.2
PROPANE.....	3.4	3.1	5.9
N-BUTANE.....	0.8	1.0	2.2
ISOBUTANE.....	0.5	0.4	1.3
N-PENTANE.....	0.1	0.1	1.0
ISOPENTANE.....	0.3	0.3	0.4
CYCLOPENTANE.....	0.1	0.1	0.3
HEXANES PLUS.....	0.1	0.1	0.7
NITROGEN.....	4.3	16.4	5.8
OXYGEN.....	0.1	0.0	0.0
ARGON.....	0.1	0.1	0.0
HYDROGEN.....	0.2	TRACE	0.2
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.2
HELIUM.....	0.30	1.02	0.00
HEATING VALUE*.....	1.047	976	1281
SPECIFIC GRAVITY.....	0.701	0.709	0.787

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 316 13588	INDEX SAMPLE 317 14687	INDEX SAMPLE 318 14688
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	REEVES	REEVES	REEVES
FIELD.....	ATHEN	CHAPMAN	CHAPMAN
WELL NAME.....	SPENCER NO. 1	A.T. RANDOLPH G.U. NO. 1	A.T. RANDOLPH G.U. NO. 1
LOCATION.....	SEC. 33, HLK. 55, T8P SUR.	SEC. 34, BLK. 57, T-2 T8P SR	SEC. 34, BLK. 57, T-2 T8P SR
OWNER.....	COASTAL STATES GAS CO.	GULF ENERGY & MINERALS CO.	GULF ENERGY & MINERALS CO.
COMPLETED.....	12/06/72	09/22/74	09/17/74
SAMPLED.....	04/20/73	06/04/76	06/04/76
FORMATION.....	NOT GIVEN	SILU-FUSSELMAN	PENN-ATOKA
GEOLOGIC PROVINCE CODE.....	430	430	430
DEPTH, FEET.....	12911	15499	12884
WELLHEAD PRESSURE, PSIG.....	4600	5353	6664
OPEN FLOW, MCF/D.....	22000	19600	25025
COMPONENT, MOLE PCT			
METHANE.....	83.7	96.6	98.0
ETHANE.....	0.3	0.3	0.6
PROPANE.....	0.1	TRACE	0.1
N-BUTANE.....	0.0	TRACE	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	TRACE	0.0
ISOPENTANE.....	0.0	TRACE	0.0
CYCLOPENTANE.....	0.0	TRACE	0.0
HEXANES PLUS.....	0.0	TRACE	0.0
NITROGEN.....	1.0	0.9	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.1	0.0
CARBON DIOXIDE.....	9.9	2.0	1.0
HELIUM.....	0.02	0.03	0.01
HEATING VALUE*.....	906	985	1006
SPECIFIC GRAVITY.....	0.657	0.579	0.569

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12375	INDEX SAMPLE 12422	INDEX SAMPLE 12551
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	REEVES	REEVES	REEVES
FIELD.....	GREASEWOOD	GREASEWOOD	GREASEWOOD
WELL NAME.....	CORNELL KNIGHT NO. 1	CORNELL KNIGHT NO. 1	CORNELL KNIGHT NO. 1
LOCATION.....	SEC. 9, BLK. C-19, PSL SUR.	SEC. 9, BLK. C19, PSL SUR.	SEC. 9, BLK. C19, P&L SUR.
OWNER.....	TEXACO INC.	TEXACO INC.	TEXACO INC.
COMPLETED.....	09/22/68	09/22/68	09/22/68
SAMPLED.....	08/19/70	09/23/70	11/19/70
FORMATION.....	DEVON-	DEVON-	SILU-DEVO
GEOLOGIC PROVINCE CODE.....	430	430	430
DEPTH, FEET.....	16293	16293	16293
WELLHEAD PRESSURE, PSIG.....	5000	5777	5777
OPEN FLOW, MCFD.....	37000	37000	37000
COMPONENT, MOLE PCT			
METHANE.....	93.3	93.6	93.4
ETHANE.....	0.4	0.4	0.4
PROPANE.....	TRACE	TRACE	TRACE
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	0.6	0.9	0.6
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	TRACE	0.1	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	TRACE
CARBON DIOXIDE.....	5.6	5.0	5.5
HELIUM.....	0.02	0.02	0.02
HEATING VALUE*.....	952	956	954
SPECIFIC GRAVITY.....	0.613	0.608	0.612

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 10612	INDEX SAMPLE 14473	INDEX SAMPLE 324 12811
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	REEVES	REEVES	REEVES
FIELD.....	HAMON	L.N.D.	ROJO CABALLOS W
WELL NAME.....	HAPLES PLATTER	PECOS UNIT NO. 1	TXL REEVES STATE UNIT
LOCATION.....	SEC. 22, BLK. 50, T1S	SEC. 29, BLK. 4, H8GNRR SUR.	SEC. 20, BLK. 49, T8PRR SUR.
OWNER.....	JAKE L. HAMON	TEXAS WEST OIL & GAS CORP.	TEXACO INC.
COMPLETED.....	--/--/65	NOT GIVEN	06/19/66
SAMPLED.....	06/14/66	10/03/75	NOT GIVEN
FORMATION.....	ORDO-ELLENBURGER	PENN-ATOKA	ORDO-ELLENBURGER
GEOLOGIC PROVINCE CODE.....	430	430	430
DEPTH, FEET.....	20450	15218	20520
WELLHEAD PRESSURE, PSI.....	6700	8950	6877
OPEN FLOW, MCFD.....	50000	44000	375000
COMPONENT, MOLE PCT			
METHANE.....	90.0	95.2	94.9
ETHANE.....	0.3	0.4	0.3
PROPANE.....	0.0	0.1	0.1
N-BUTANE.....	0.0	TRACE	0.0
ISOBUTANE.....	0.0	TRACE	0.0
N-PENTANE.....	0.0	TRACE	0.0
ISOPENTANE.....	0.0	TRACE	0.0
CYCLOPENTANE.....	0.0	TRACE	0.0
HEXANES PLUS.....	0.0	TRACE	0.0
NITROGEN.....	0.7	0.4	0.7
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	9.0	3.9	4.0
HELIUM.....	0.02	0.01	0.02
HEATING VALUE**.....	917	974	969
SPECIFIC GRAVITY.....	0.647	0.597	0.599

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13542	INDEX SAMPLE 15077	INDEX SAMPLE 327 11187
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	ROBERTS	KUSK	SCHLEICHER
FIELD.....	CAFE FLOWERS	RUFUS	CODY BELL
WELL NAME.....	FLOWERS "A" NO. 1	KANGERGA NO. 1	C. M. BELL NO. 1
LOCATION.....	SEC. 79, BLK.C, G&M SUR.	JOHN M. WHITE SUR. A-813	SEC. 10, BLK. LL, TCRR SUR.
OWNER.....	HELMERICH & PAYNE, INC.	HINTON PRODUCTION CO.	SKELLY OIL CO.
COMPLETED.....	07/05/72	10/01/75	08/23/67
SAMPLED.....	02/19/73	08/12/77	10/23/67
FORMATION.....	PENN-DOUGLAS	CRET-PETIT	PENN-CANYON D
GEOLOGIC PROVINCE CODE...	360	260	430
DEPTH, FEET.....	6287	7256	6445
WELLHEAD PRESSURE,PSIG...	1645	2581	2122
OPEN FLOW, MCFD.....	5200	14000	3000
COMPONENT, MOLE PCT			
METHANE.....	79.9	85.0	74.7
ETHANE.....	8.7	5.2	8.9
PROPANE.....	5.1	2.5	5.8
N-BUTANE.....	1.3	1.3	1.2
ISOBUTANE.....	0.5	1.1	0.9
N-PENTANE.....	0.3	0.9	0.3
ISOPENTANE.....	0.2	0.2	0.2
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.1	0.9	0.2
NITROGEN.....	3.6	1.5	6.6
OXYGEN.....	TRACE	0.0	0.1
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	1.1	0.9
HELIUM.....	0.16	0.02	0.12
HEATING VALUE.....	1189	1197	1173
SPECIFIC GRAVITY.....	0.705	0.702	0.741

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 328 11032	INDEX SAMPLE 329 11033	INDEX SAMPLE 330 10852
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	SCHLEICHER	SCHLEICHER	SCHLEICHER
FIELD.....	ELDORADO	ELDORADO	ELDORADO N
WELL NAME.....	L. I. WHITTEN NO. 1	L. I. WHITTEN NO. 1	MATTIE ROYSTER NO. 1
LOCATION.....	SEC. 25, BLK. LL, TCR SUR.	SEC. 25, BLK. LL, TCR SUR.	SEC. 23, BLK. LL, TCR SUR.
OWNER.....	SKELLY OIL CO.	SKELLY OIL CO.	SKELLY OIL CO.
COMPLETED.....	08/13/65	06/23/66	08/18/66
SAMPLED.....	07/19/67	07/19/67	01/25/67
FORMATION.....	PENN-CANYON B	PENN-CANYON A	PENN-CANYON A
GEOLOGIC PROVINCE CODE.....	430	430	430
DEPTH, FEET.....	6380	6199	6295
WELLHEAD PRESSURE, PSIG.....	2050	1960	2114
OPEN FLOW, MCFD.....	920	6600	7700
COMPONENT, MOLF PCT			
METHANE.....	74.2	31.1	75.5
ETHANE.....	8.6	20.4	9.2
PROPANE.....	5.9	29.9	5.4
N-BUTANE.....	1.8	6.7	1.3
ISOBUTANE.....	1.1	4.1	1.1
N-PENTANE.....	0.6	0.3	0.5
ISOPENTANE.....	0.9	2.6	0.1
CYCLOPENTANE.....	0.3	0.3	0.1
HEXANES PLUS.....	9.8	0.7	0.4
NITROGEN.....	5.3	2.8	5.6
OXYGEN.....	TRACE	TRACE	TRACE
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.1	0.1	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.8	0.7
HELIUM.....	0.13	0.04	0.13
HEATING VALUE**.....	1273	1991	1200
SPECIFIC GRAVITY.....	0.778	1.215	0.743

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX 331 SAMPLE 12768	INDEX 332 SAMPLE 15531	INDEX 333 SAMPLE 12171
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	SCHLEICHER	SHELBY	SHERMAN
FIELD.....	TOE NAIL	JOAQUIN	STRATFORD (WILDCAT)
WELL NAME.....	A. H. THOMERSON NO. 2	W. M. TAYLOR NO. 1	M. DORTCH NO. 1
LOCATION.....	20 MI. NE OF ELDORADO	S. O. PENNINGTON SUR., A-555	SEC. 25, BLK. 1-T, T&NO SUR.
OWNER.....	ATLANTIC RICHFIELD CO.	KEY PRODUCTION CO.	W. V. HARLOW ET AL.
COMPLETED.....	--/--754	10/05/76	NOT GIVEN
SAMPLED.....	04/19/71	12/06/78	01/17/70
FORMATION.....	PENN-HARKEY	CRET-TRAVIS PEAK	PERM-RED CAVE
GEOLOGIC PROVINCE CODE.....	430	260	360
DEPTH, FEET.....	4590	6192	1720
WELLHEAD PRESSURE, PSIG.....	490	2763	400
OPEN FLOW, MCFD.....	800	1500	206
COMPONENT, MOLF PCT			
METHANE.....	72.2	93.8	40.3
ETHANE.....	9.8	2.0	4.6
PROPANE.....	5.2	0.4	3.6
N-BUTANE.....	1.3	0.1	0.9
ISOBUTANE.....	0.7	0.1	0.3
N-PENTANE.....	0.2	0.1	0.1
ISOPENTANE.....	0.4	0.0	0.3
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.3	0.2	0.1
NITROGEN.....	9.1	2.3	48.9
OXYGEN.....	0.1	0.0	0.0
ARGON.....	TRACE	TRACE	0.2
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.7	0.0
HELIUM.....	0.25	0.02	0.75
HEATING VALUE.....	1163	1018	647
SPECIFIC GRAVITY.....	0.749	0.593	0.842

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13754	INDEX SAMPLE 14177	INDEX SAMPLE 14248
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	SHERMAN	SMITH	STERLING
FIELD.....	WILDCAT	OVERTON	CONGER
WELL NAME.....	CALVINO-A NO. 2	OVERTON G.U. 1 NO. 1	FOSTER CONGER NO. 1
LOCATION.....	SEC. 382, BLK. 1T, T&NO SUR.	M.G. HERIQUEZ SUR.	SEC. 5, BLK. 21, H&TCRR SUR.
OWNER.....	CITIES SERVICE OIL CO.	EXXON CO. U.S.A.	DORCHESTER EXPLORATION, INC.
COMPLETED.....	08/09/73	NOT GIVEN	05/31/74
SAMPLED.....	10/16/73	10/--/74	12/26/74
FORMATION.....	PENN-LIME	JURA-HAYNESVILLE	PENN-CANYON
GEOLOGIC PROVINCE CODE.....	360	260	430
DEPTH, FEET.....	3010	12000	7301
WELLHEAD PRESSURE, PSIG.....	84	5205	1735
OPEN FLOW, MCFO.....	13300	7800	7200
COMPONENT, MOLE PCT			
METHANE.....	68.0	95.9	70.2
ETHANE.....	6.6	0.7	9.6
PROPANE.....	4.4	0.1	9.1
N-BUTANE.....	1.5	TRACE	3.2
ISOBUTANE.....	0.7	TRACE	1.4
N-PENTANE.....	0.4	TRACE	0.9
ISOPENTANE.....	0.4	TRACE	0.9
CYCLOPENTANE.....	0.1	TRACE	0.3
HEXANES PLUS.....	0.2	0.1	0.7
NITROGEN.....	16.0	1.2	3.5
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.1	TRACE	0.0
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	2.0	0.2
HELIUM.....	0.40	0.01	0.09
HEATING VALUE*.....	1054	992	1398
SPECIFIC GRAVITY.....	0.758	0.586	0.837

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12675	INDEX SAMPLE 14170	INDEX SAMPLE 12276
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	SUTTON	SUTTON	THROCKMORTON
FIELD.....	DENISON	NOT GIVEN	COUNTY REGULAR
WELL NAME.....	G. R. HILL NO. 1	HOLL NO.1	MATTHEWS RANCH NO. 5
LOCATION.....	SEC. 2, BLK. CC, DENISON SUR	SEC. 121, BLK. A, HE&WT SUR.	SEC. 25, BLK. 1-T, T&NO SUR.
OWNER.....	CONTINENTAL OIL CO.	PETROLEUM CORP.	C. E. JACOBS
COMPLETED.....	10/20/62	02/17/73	NOT GIVEN
SAMPLED.....	02/05/71	10/10/74	06/02/70
FORMATION.....	PENN-STRAWN	PENN-CANYON	PENN-AVIS
GEOLOGIC PROVINCE CODE.....	430	430	425
DEPTH, FEET.....	4134	5723	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	1005	1440	NOT GIVEN
OPEN FLOW, MCFD.....	1343	4500	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	95.7	82.7	72.8
ETHANE.....	1.4	8.2	1.2
PROPANE.....	0.2	3.6	0.6
N-BUTANE.....	0.0	0.8	0.2
ISOBUTANE.....	0.0	0.6	0.4
N-PENTANE.....	0.0	0.1	0.1
ISOPENTANE.....	0.0	0.3	0.1
CYCLOPENTANE.....	0.0	TRACE	0.1
HEXANES PLUS.....	0.0	0.2	0.1
NITROGEN.....	1.1	2.8	23.4
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.2
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	0.6	TRACE
HELIUM.....	0.05	0.10	0.84
HEATING VALUE.....	1007	1153	813
SPECIFIC GRAVITY.....	0.542	0.682	0.676

\* CALCULATED GROSS B10 PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12277	INDEX SAMPLE 12681	INDEX SAMPLE 12682
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	THROCKMORTON	UPTON	UPTON
FIELD.....	COUNTY REGULAR	ADAMC	FRADEAN
WELL NAME.....	MATTHEWS RANCH NO. 28-B	ADAMC UNIT NO. D-362	KING RANCH O&L CO. NO. 6-1
LOCATION.....	SEC. 6, BLK. X, AB&M SUR.	SEC. 187, BLK.F, CCSD&RGNGRR	SEC. 26, BLK. 2, MK&TRR SUR.
OWNER.....	C. E. JACOBS	GULF OIL CORP.	GULF OIL CORP.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	06/02/70	02/03/71	02/05/71
FORMATION.....	PENN-BLUFF CREEK	DEVO-	DEVO-
GEOLOGIC PROVINCE CODE.....	425	430	430
DEPTH, FEET.....	960	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	300	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	72.9	68.5	73.3
ETHANE.....	0.8	15.5	13.8
PROPANE.....	0.3	7.8	6.3
N-BUTANE.....	0.1	2.4	1.3
ISOBUTANE.....	0.2	1.0	1.1
N-PENTANE.....	TRACE	0.7	0.7
ISOPENTANE.....	TRACE	0.3	0.1
CYCLOPENTANE.....	TRACE	0.1	0.2
HEXANES PLUS.....	TRACE	0.3	0.5
NITROGEN.....	24.4	3.2	2.0
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.1	0.0	0.0
HYDROGEN.....	0.2	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.0	0.0	0.0
HELIUM.....	0.93	0.4	0.6
HEATING VALUE.....	771	0.02	0.03
SPECIFIC GRAVITY.....	0.662	1351	1301
		0.808	0.767

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1972

	INDEX SAMPLE 12680	INDEX SAMPLE 14905	INDEX SAMPLE 15194
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	UPTON	VAL VERDE,	VAL VERDE
WELL NAME.....	JACK HERBERT	DEVIL'S RIVER	WILL O
LOCATION.....	MCELROY RANCH CO. L NO. 8-U	J. V. DRISDALE NO. 1	EXXON MILLS NO. 1
OWNER.....	SEC. 109, BLK. D, CCSD&RNGRR	SEC. 1, RLK. G, GWT&P SUR A-933	SEC. 16, BLK. 04, TCRR SUR.
COMPLETED.....	GULF OIL CORP.	NATIONAL EXPLORATION CO.	C & K PETROLEUM, INC.
SAMPLED.....	NOT GIVEN	04/13/75	07/10/76
FORMATION.....	02/04/71	02/16/77	01/23/78
GEOLOGIC PROVINCE CODE.....	PENN-STRAWN	PENN-STRAWN	ORDO-ELLENBURGER
DEPTH, FEET.....	430	430	430
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	10223	14208
OPEN FLOW, MCF/D.....	NOT GIVEN	NOT GIVEN	4826
COMPONENT, MOLE PCT		4635	9600
METHANE.....	76.8	95.4	85.9
ETHANE.....	11.1	0.3	0.2
PROPANE.....	5.9	TRACE	TRACE
N-BUTANE.....	1.8	0.0	0.0
ISOBUTANE.....	1.1	0.0	0.0
N-PENTANE.....	0.5	0.0	0.0
ISOPENTANE.....	0.3	0.0	0.0
CYCLOPENTANE.....	0.2	0.0	0.0
HEXANES PLUS.....	0.4	0.0	0.0
NITROGEN.....	1.7	0.9	0.7
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	3.3	13.2
HELIUM.....	0.03	0.06	0.03
HEATING VALUE*.....	1247	972	874
SPECIFIC GRAVITY.....	0.750	0.591	0.687

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 12808	INDEX SAMPLE 13108	INDEX SAMPLE 348 14899
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	WARD	WARD	WEBB
FIELD.....	BLOCK 17 SE	QUITO	LAREDO LOBO
WELL NAME.....	STATE OF TEXAS DC NO. 1	QUITO NO. 1	W. HUBBARD NO. 2
LOCATION.....	SEC. 3, BLK. 18, PSL SUR.	SEC. 210, BLK. 34, H&TC SUR.	14 MI. SE LAREDO
OWNER.....	TEXACO INC.	AMER. QUASAR PETROLEUM CO.	CONTINENTAL OIL CO.
COMPLETED.....	NOT GIVEN	06/11/71	07/05/75
SAMPLED.....	04/30/71	11/30/71	02/08/77
FORMATION.....	PERM-DELAWARE	SILU-FUSSELMAN	EOCE-WILCOX
GEOLOGIC PROVINCE CODE.....	430	430	220
DEPTH, FEET.....	4972	14655	8427
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	5861	1575
OPEN FLOW, MCFD.....	67	16000	82000
COMPONENT, MOLE PCT			
METHANE.....	87.6	93.7	90.0
ETHANE.....	5.8	0.4	5.8
PROPANE.....	1.9	0.1	1.6
N-BUTANE.....	0.5	0.0	0.3
ISOBUTANE.....	0.6	0.0	0.4
N-PENTANE.....	0.1	0.0	0.2
ISOPENTANE.....	0.2	0.0	0.2
CYCLOPENTANE.....	0.1	0.0	TRACE
HEXANES PLUS.....	0.2	0.0	0.2
NITROGEN.....	2.8	0.7	0.1
OXYGEN.....	0.0	0.1	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	4.9	1.2
HELIUM.....	0.02	0.01	TRACE
HEATING VALUE*.....	1104	959	1108
SPECIFIC GRAVITY.....	0.642	0.608	0.634

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 349 9752	INDEX SAMPLE 350 9753	INDEX SAMPLE 351 10845
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	WHEELER	WHEELER	WHEELER
FIELD.....	GAGEBY CREEK	GAGEBY CREEK	GAGEBY CREEK
WELL NAME.....	LEE C NO. 1	LEE C NO. 1	DYSON A NO. 1
LOCATION.....	SEC. 80, BLK. M-1, H&GN SUR.	SEC. 80, BLK. M-1, H&GN SUR.	SEC. 100, BLK. A-5, H&GN SUR.
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	10/16/64	10/17/64	07/27/66
SAMPLED.....	02/22/65	02/22/65	01/23/67
FORMATION.....	ORDO-SIMPSON	UEVO-HUNTON	DEVO-HUNTON
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	15982	15121	15009
WELLHEAD PRESSURE, PSIG...	5380	5010	4990
OPEN FLOW, MCFD.....	21000	41000	740000
COMPONENT, MOLE PCT			
METHANE.....	97.1	94.9	94.8
ETHANE.....	0.5	1.2	1.2
PROPANE.....	0.2	0.3	0.4
N-BUTANE.....	0.1	0.1	0.0
ISOBUTANE.....	TRACE	0.1	0.0
N-PENTANE.....	TRACE	TRACE	0.0
ISOPENTANE.....	TRACE	TRACE	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	0.1	0.1	0.0
NITROGEN.....	0.7	1.2	1.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.1	2.0	2.2
HELIUM.....	0.05	0.03	0.03
HEATING VALUE.....	1006	1002	992
SPECIFIC GRAVITY.....	0.575	0.593	0.591

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 10846	INDEX SAMPLE 12809	INDEX SAMPLE 354 9951
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	WHEELER	WINKLER	WINKLER
FIELD.....	GAGEBY CREEK	EMPERIOR	HALLEY
WELL NAME.....	WYSON A NO. 1	S. M. HALLEY NO. 10	S. M. HALLEY NO. 167
LOCATION.....	SEC. 100, BLK. A-5, H&GN SUR.	SEC. 7, BLK. R-11, PSL SUR.	SEC. 24, BLK. B-11
OWNER.....	PHILLIPS PETROLEUM CO.	TEXACO INC.	SKELLY OIL CO.
COMPLETED.....	NOT GIVEN	NOT GIVEN	11/--/64
SAMPLED.....	01/23/67	04/30/71	07/02/65
FORMATION.....	ORDO-SIMPSON	ORDO-WADDELL	DEVO-
GEOLOGIC PROVINCE COOF.....	360	430	430
DEPTH, FEET.....	14795	11032	9503
WELLHEAD PRESSURE, PSIG.....	5126	NOT GIVEN	3000
OPEN FLOW, MCFO.....	2450	230	16214
COMPONENT, MOLE PCT			
METHANE.....	96.7	85.5	84.4
ETHANE.....	0.4	7.4	7.3
PROPANE.....	0.2	3.1	2.7
N-BUTANE.....	0.0	1.0	0.9
ISOBUTANE.....	0.0	0.7	0.6
N-PENTANE.....	0.0	0.6	0.5
ISOPENTANE.....	0.0	0.0	TRACE
CYCLOPENTANE.....	0.0	0.1	0.3
HEXANES PLUS.....	0.0	0.4	1.0
NITROGEN.....	0.5	1.2	1.2
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.4	0.1	0.0
HELIUM.....	0.04	0.04	1.1
HEATING VALUE*.....	999	1186	TRACE
SPECIFIC GRAVITY.....	0.580	0.678	1190
			0.696

\* CALCULATED GROSS BTU PER CU FT. DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE	INDEX SAMPLE
STATE.....	TEXAS	TEXAS	TEXAS	UTAH
COUNTY.....	WINKLER	WINKLER	WINKLER	EMERY
FIELD.....	HALLEY	HALLEY	WILLOCAT	BOW KNOT
WELL NAME.....	S. 4. HALLEY NO. 167	TUBB ESTATE NO. 1	SEC. 25, BLK C-23, PSL SUR.	BOW KNOT NO. 145
LOCATION.....	SEC. 24, BLK. B-11	SINCLAIR OIL & GAS CO.	NOT GIVEN	SEC. 5, T26S, R17E
OWNER.....	SMELLY OIL CO.	NOT GIVEN	NOT GIVEN	SUPERIOR OIL CO.
COMPLETED.....	11/22/64	10/04/68	10/17/62	NOT GIVEN
SAMPLED.....	07/02/65	ORDO-MONTONA	MISS-	01/17/62
FORMATION.....	430	430	ORDO-ELLENBURGER	565
GEOLOGIC PROVINCE CODE.....	10432	21466	NOT GIVEN	6270
DEPTH, FEET.....	1833	27000	NOT GIVEN	2420
WELLHEAD PRESSURE, PSIG.....	4698			300
OPEN FLOW, MCFU.....				
COMPONENT, MOLE PCT				
METHANE.....	84.3	98.2	98.2	12.6
ETHANE.....	7.2	0.2	0.2	1.5
PROPANE.....	3.1	TRACE	TRACE	1.0
N-BUTANE.....	0.9	0.0	0.0	0.4
ISOBUTANE.....	0.6	0.0	0.0	0.2
N-PENTANE.....	0.4	0.0	0.0	0.2
ISOPENTANE.....	TRACE	0.0	0.0	TRACE
CYCLOPENTANE.....	0.1	0.0	0.0	0.1
HEXANES PLUS.....	0.5	0.0	0.0	0.3
NITROGEN.....	1.6	0.3	0.3	79.1
OXYGEN.....	0.0	0.0	0.0	TRACE
ARGON.....	0.0	0.0	0.0	0.2
HYDROGEN.....	0.0	0.1	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0	0.2
CARBON DIOXIDE.....	1.3	1.2	1.2	2.7
HELIUM.....	TRACE	0.03	0.03	1.47
HEATING VALUE.....	1160	999	999	200
SPECIFIC GRAVITY.....	0.685	0.568	0.568	0.943

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14272	INDEX SAMPLE 14697	INDEX SAMPLE 360 11764
STATE.....	UTAH	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	UINIAH	BRAXTON	KANAWHA
FIELD.....	SEEP RIDGE	LITTLE BIRCH	SISSONVILLE
WELL NAME.....	TEXACO-SKYLINE GOV'T AF NO.	JACKSON NO. 1	CAVENDER ET AL. 8-1
LOCATION.....	SEC. 27, T13S, R21E	NOT GIVEN	ELK DISTRICT
OWNER.....	TEXACO INC.	TEXAS INTERNATIONAL PET.	CITIES SERVICE OIL CO.
COMPLETED.....	NOT GIVEN	12/10/75	12/29/68
SAMPLED.....	02/15/75	06/04/76	02/14/69
FORMATION.....	CRET-DAKOTA	MISS-SQUAW	SILU-NEUBURG
GEOLOGIC PROVINCE CONF.....	575	160	160
DEPTH, FEET.....	9670	1893	5793
WELLHEAD PRESSURE, PSIG.....	3000	580	2271
OPEN FLOW, MCFD.....	3000	NOT GIVEN	52000
COMPONENT, MOLE PCT			
METHANE.....	95.4	91.9	95.0
ETHANE.....	2.3	5.4	1.1
PROPANE.....	0.4	1.2	0.3
N-BUTANE.....	TRACE	0.2	0.0
ISOBUTANE.....	0.1	0.2	0.0
N-PENTANE.....	0.1	0.0	0.0
ISOPENTANE.....	TRACE	0.1	0.0
CYCLOPENTANE.....	0.1	TRACE	0.0
HEXANES PLUS.....	0.2	TRACE	0.0
NITROGEN.....	0.3	0.6	3.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.1
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.1	0.1	0.1
HELIUM.....	0.02	0.06	0.11
HEATING VALUE.....	1040	1077	990
SPECIFIC GRAVITY.....	0.592	0.603	0.577

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14690	INDEX SAMPLE 14691	INDEX SAMPLE 14693
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	NICHOLAS	NICHOLAS	NICHOLAS
FIELD.....	20 MILE CREEK	20 MILE CREEK	20 MILE CREEK
WELL NAME.....	FEDERAL COAL NO. 4	REITHLEHM NO. 8-1	FEDERAL COAL NO. 13
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	TEXAS INTERNATIONAL PET.	TEXAS INTERNATIONAL PET.	TEXAS INTERNATIONAL PET.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	06/04/76	06/04/76	12/09/75
FORMATION.....	NOT GIVEN	MISS-INJUN	MISS-BIG INJUN
GEOLOGIC PROVINCE COUL.....	160	160	160
DEPTH, FEET.....	2471	1840	2612
WELLHEAD PRESSURE, PSIG.....	525	540	520
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PER			
METHANE.....	91.1	90.0	91.3
ETHANE.....	5.9	6.8	5.8
PROPANE.....	1.5	1.7	1.5
N-BUTANE.....	0.3	0.3	0.3
ISOBUTANE.....	0.2	0.2	0.2
N-PENTANE.....	TRACE	TRACE	TRACE
ISOPENTANE.....	0.2	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	TRACE
NITROGEN.....	0.5	0.5	0.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.1	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.1	TRACE
HELIUM.....	0.03	0.04	0.04
HEATING VALUE.....	1098	1104	1089
SPECIFIC GRAVITY.....	0.613	0.619	0.608

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 364 14695	INDEX SAMPLE 365 14696	INDEX SAMPLE 366 14698
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	NICHOLAS	NICHOLAS	NICHOLAS
FIELD.....	20 MILE CREEK	20 MILE CREEK	20 MILE CREEK
WELL NAME.....	FEDERAL COAL NO. 16	BETHLEHEM NO. B-14	BETHLEHEM NO. B-17
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	TEXAS INTERNATIONAL PET.	TEXAS INTERNATIONAL PET.	TEXAS INTERNATIONAL PET.
COMPLETED.....	05/15/75	09/17/75	NOT GIVEN
SAMPLED.....	06/04/76	06/04/76	06/04/76
FORMATION.....	DEVO-BLUE MONDAY	MISS-WAXTON	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	160	160	160
DEPTH, FEET.....	2063	2267	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	675	420	560
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	92.9	91.0	94.3
ETHANE.....	4.2	5.7	3.3
PROPANE.....	1.1	1.5	0.6
N-BUTANE.....	0.2	0.3	0.2
ISOBUTANE.....	0.3	0.2	0.1
N-PENTANE.....	TRACE	TRACE	0.0
ISOPENTANE.....	0.2	0.1	0.1
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	TRACE
NITROGEN.....	0.9	0.8	1.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	TRACE
HELIUM.....	0.09	0.08	0.15
HEATING VALUE*.....	1075	1089	1044
SPECIFIC GRAVITY.....	0.605	0.611	0.588

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14699	INDEX SAMPLE 14700	INDEX SAMPLE 14701
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	NICHOLAS	NICHOLAS	NICHOLAS
FIELD.....	20 MILE CREEK	20 MILE CREEK	20 MILE CREEK
WELL NAME.....	FEDERAL COAL NO. 6	BLANTON NO. 1	BETHLEHEM NO. B-25
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	TEXAS INTERNATIONAL PET.	TEXAS INTERNATIONAL PET.	TEXAS INTERNATIONAL PET.
COMPLETED.....	01/04/75	05/10/75	08/28/75
SAMPLED.....	06/04/76	06/04/76	06/04/76
FORMATION.....	MISS-INJUN	MISS-INJUN	MISS-BIG LIME
GEOLOGIC PROVINCE CODE.....	160	160	160
DEPTH, FEET.....	2454	1898	2212
WELLHEAD PRESSURE, PSIG.....	540	545	625
OPEN FLOW, MCF/D.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLT PCT			
METHANE.....	90.3	90.9	90.1
ETHANE.....	6.0	6.1	6.5
PROPANE.....	1.7	1.5	1.7
N-BUTANE.....	0.4	0.3	0.4
ISOBUTANE.....	0.3	0.2	0.2
N-PENTANE.....	TRACE	TRACE	TRACE
ISOPENTANE.....	0.2	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.9	0.5	0.5
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.2	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	0.3
HELIUM.....	0.03	0.04	0.04
HEATING VALUE**.....	1104	1096	1107
SPECIFIC GRAVITY.....	0.621	0.612	0.624

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 370 14692	INDEX SAMPLE 371 14694	INDEX SAMPLE 372 9677
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	NICHOLAS	NICHOLAS	PRESTON
FIELD.....	PETERS CREEK	PETERS CREEK	HORTON
WELL NAME.....	WALKER NO. 1	KEENAN NO. 1	USA-N-1
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	TEXAS INTERNATIONAL PET.	TEXAS INTERNATIONAL PET.	CITIES SERVICE OIL CO.
COMPLETED.....	10/18/75	11/06/75	02/07/63
SAMPLED.....	06/04/76	06/04/76	12/16/64
FORMATION.....	MISS-MAXTON	MISS-MAXTON	SILU-TUSCARORA
GEOLOGIC PROVINCE COU.....	160	160	160
DEPTH, FEET.....	1865	1216	7180
WELLHEAD PRESSURE, PSIG.....	190	190	1800
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	696
COMPONENT, MOLE PCT			
METHANE.....	92.3	90.5	76.8
ETHANE.....	5.2	6.5	1.8
PROPANE.....	1.1	1.5	0.3
N-BUTANE.....	0.2	0.3	0.0
ISOBUTANE.....	0.2	0.2	0.0
N-PENTANE.....	TRACE	TRACE	0.0
ISOPENTANE.....	0.1	0.2	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	0.1	0.1	0.0
NITROGEN.....	0.6	0.6	20.3
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.1	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.2	0.2
HELIUM.....	0.04	0.05	0.46
HEATING VALUE.....	1080	1103	818
SPECIFIC GRAVITY.....	0.603	0.620	0.649

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 373 14845	INDEX SAMPLE 374 14846	INDEX SAMPLE 375 14851
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	PRESTON	PRESTON	PRESTON
FIELD.....	MORGANTOWN QUADRANGLE	MORGANTOWN QUADRANGLE	MORGANTOWN QUADRANGLE
WELL NAME.....	H. J. HENE	PRESTON CO. COAL NO. 484	PRESTON CO. COAL NO. 478
LOCATION.....	VALLEY DISTRICT	VALLEY DISTRICT	VALLEY DISTRICT
OWNER.....	RAY RESOURCES CORP.	RAY RESOURCES CORP.	RAY RESOURCES CORP.
COMPLETED.....	NOT GIVEN	12/04/74	11/18/74
SAMPLED.....	11/01/76	11/01/76	NOT GIVEN
FORMATION.....	NOT GIVEN	DEVO-HUNTERSVILLE	DEVO-HUNTERSVILLE
GEOLOGIC PROVINCE CODE.....	160	160	160
DEPTH, FEET.....	NOT GIVEN	7792	7682
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFG.....	NOT GIVEN	3037	5165
COMPONENT, FOLF PCT			
METHANE.....	97.4	97.6	97.5
ETHANE.....	1.7	1.6	1.7
PROPANE.....	TRACE	0.1	0.1
N-BUTANE.....	0.1	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	0.5	0.5	0.5
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.2	0.2
HELIUM.....	0.02	0.02	0.02
HEATING VALUE*.....	1021	1020	1021
SPECIFIC GRAVITY.....	0.568	0.567	0.568

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14852	INDEX SAMPLE 14820	INDEX SAMPLE 378 9432
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	PRESTON	PRESTON	PRESTON
FIELD.....	MORGANTOWN QUADRANGLE	NOT GIVEN	PARSONS
WELL NAME.....	PRESTON CO. COAL NO. 474	B.M. MORGAN NO. 481	USA-0-1
LOCATION.....	VALLEY DISTRICT	MORGANTOWN QUADRANGLE	NOT GIVEN
OWNER.....	RAY RESOURCES CORP.	RAY RESOURCES CORP.	CITIES SERVICE OIL CO.
COMPLETED.....	12/04/74	11/18/75	03/17/64
SAMPLED.....	NOT GIVEN	10/25/76	07/01/64
FORMATION.....	DEVO-HUNTERSVILLE	DEVO-HUNTERVILLE	SILU-TUSCARORA
GEOLOGIC PROVINCE CODE...	160	160	160
DEPTH, FEET.....	7792	7851	7058
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	NOT GIVEN	2620
OPEN FLOW, MCFP.....	3037	2919	16300
COMPONENT, MOLE PCT			
METHANE.....	97.5	97.3	78.7
ETHANE.....	1.7	1.7	1.8
PROPANE.....	0.1	0.1	0.2
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	0.5	0.5	18.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.2	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.1	0.3
HELIUM.....	0.02	0.02	0.42
HEATING VALUE*.....	1021	1019	835
SPECIFIC GRAVITY.....	0.568	0.565	0.643

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 379 9676	INDEX SAMPLE 380 13158	INDEX SAMPLE 381 12852
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WYOMING
COUNTY.....	TUCKER	TUCKER	CAMPBELL
FIELD.....	HORTON	NOT GIVEN	WILDCAT
WELL NAME.....	USA-T-1	MULLENAX NO. A-1	USA NO. 1-2
LOCATION.....	NOT GIVEN	PARSONS GUADARANGLE	SEC. 2, T57N, R76W
OWNER.....	CITIES SERVICE OIL CO.	CITIES SERVICE OIL CO.	ATLANTIC RICHFIELD CO.
COMPLETION.....	08/21/64	12/11/71	05/28/71
SAMPLED.....	12/16/64	02/29/72	NOT GIVEN
FORMATION.....	SILU-TUSCARORA	SILU-TUSCARORA	NOT GIVEN
GEOLOGIC PROVINCE CODE...	160	160	515
DEPTH, FEET.....	6822	5455	7423
WELLHEAD PRESSURE, PSIG...	2630	2645	NOT GIVEN
OPEN FLOW, MCFD.....	22000	28000	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	79.4	79.0	63.3
ETHANE.....	1.8	1.8	6.8
PROPANE.....	0.2	0.2	13.1
N-BUTANE.....	0.0	0.1	6.0
ISOBUTANE.....	0.0	0.0	2.7
N-PENTANE.....	0.0	0.1	0.7
ISOPENTANE.....	0.0	0.0	3.2
CYCLOPENTANE.....	0.0	0.2	0.5
HEXANES PLUS.....	0.0	0.3	0.9
NITROGEN.....	17.9	17.1	2.6
OXYGEN.....	TRACE	0.4	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.3	0.1
HELIUM.....	0.42	0.41	0.01
HEATING VALUE.....	442	869	1628
SPECIFIC GRAVITY.....	0.540	0.653	0.969

\* CALCULATED GROSS HTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14237	INDEX SAMPLE 11791	INDEX SAMPLE 14551
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	CARBON	FREMONT	LINCOLN
FIELD.....	BLUE GAP	PONY CREEK	WILLOW CREEK
WELL NAME.....	FLUID GAP	PONY CREEK UNIT NO. 1	ARNOLD LARSON NO. 1
LOCATION.....	SEC. 7, T14N, R92W	SEC. 1, T37N, R91W	SEC. 2, T24N, R114W
OWNER.....	CIG EXPLORATION, INC.	BUTTES GAS & OIL CO.	RAINBOW RESOURCES, INC.
COMPLETED.....	09/13/74	10/17/68	07/09/75
SAMPLED.....	11/22/74	03/11/69	11/04/75
FORMATION.....	CRET-MESAVERDE	EOCE-FORT UNION	CRET-HILLIARD
GEOLOGIC PROVINCE CODE...	535	530	535
DEPTH, FEET.....	9126	8842	2430
WELLHEAD PRESSURE, PSIG...	3375	2600	1250
OPEN FLOW, MCFD.....	3380	1000	2000
COMPONENT, MOLE PCT			
METHANE.....	97.1	61.3	81.3
ETHANE.....	5.6	19.5	11.0
PROPANE.....	2.0	8.8	4.4
N-BUTANE.....	0.5	1.6	0.7
ISOBUTANE.....	0.6	2.3	0.7
N-PENTANE.....	0.1	0.5	0.1
ISOPENTANE.....	0.3	0.2	0.1
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.3	0.4	0.1
NITROGEN.....	0.1	0.0	1.7
OXYGEN.....	TRACE	0.1	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	3.3	5.0	TRACE
HELIUM.....	TRACE	TRACE	0.03
HEATING VALUE.....	1104	1384	1196
SPECIFIC GRAVITY.....	0.668	0.871	0.689

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 14616	INDEX SAMPLE 14511	INDEX SAMPLE 15108
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	SWEETWATER	SWEETWATER	SWEETWATER
FIELD.....	KIMNEY	TABLE ROCK	TABLE ROCK
WELL NAME.....	KIMNEY UNIT NO. 2	TABLE ROCK UNIT NO. 19	TABLE ROCK UNIT NO. 22
LOCATION.....	SEC. 18, T13N, R99W	SEC. 35, T19N, R98W	SEC. 2, T18N, R98W
OWNER.....	MOUNTAIN FUEL SUPPLY CO.	NEUMIN PRODUCTION CO.	TEXACO INC.
COMPLETED.....	10/01/75	NOT GIVEN	11/01/77
SAMPLED.....	02/25/76	10/24/75	01/10/78
FORMATION.....	CRET-DAKOTA	MISS-MADISON	MISS-MADISON
GEOLOGIC PROVINCE CODE.....	535	535	535
DEPTH, FEET.....	14015	19000	18116
WELLHEAD PRESSURE, PSIG.....	8745	5200	NOT GIVEN
OPEN FLOW, MCFD.....	2915	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	96.0	73.7	75.1
ETHANE.....	0.3	2.0	2.0
PROPANE.....	TRACE	0.5	0.4
N-BUTANE.....	0.0	0.3	0.2
ISOBUTANE.....	0.0	0.1	TRACE
N-PEVTANE.....	0.0	TRACE	0.1
ISOPENTANE.....	0.0	0.1	0.1
CYCLOPENTANE.....	0.0	0.1	TRACE
HEXANES PLUS.....	0.0	0.1	0.1
NITROGEN.....	0.5	4.8	4.5
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.0	TRACE	0.1
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	2.2	1.3
CARBON DIOXIDE.....	3.2	15.8	15.8
HELIUM.....	0.01	0.29	0.30
HEATING VALUE*.....	978	836	836
SPECIFIC GRAVITY.....	0.589	0.768	0.758

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1972

	INDEX SAMPLE 388 8716	INDEX SAMPLE 389 14669	INDEX SAMPLE 390 11259
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	SWEETWATER	SWEETWATER	UINTA
FIELD.....	WILDCAT	WILDCAT	CHURCH BUTTES
WELL NAME.....	GOVT. ROWLAND NO. 1	BLACK ROCK FEDERAL NO. A-1	UNIT NO. 19
LOCATION.....	SEC. 2, T19N, R100W	SEC. 14, T23N, R99W	SEC. 8, T16N, R112W
OWNER.....	CHANDLER & BYLLESBY, INC.	ANADARKO PRODUCTION CO.	MOUNTAIN FUEL SUPPLY CO.
COMPLETED.....	NOT GIVEN	03/08/73	NOT GIVEN
SAMPLED.....	10/02/62	05/07/76	01/18/68
FORMATION.....	NOT GIVEN	CRET-LEWIS	PENN-MORGAN
GEOLOGIC PROVINCE CODE.....	535	535	535
DEPTH, FEET.....	NOT GIVEN	6825	17740
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	1933	NOT GIVEN
OPEN FLOW, MCFD.....	NOT GIVEN	4800	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	95.1	84.4	51.8
ETHANE.....	0.4	6.6	6.9
PROPANE.....	0.3	4.1	1.2
N-BUTANE.....	0.1	1.1	0.7
ISOBUTANE.....	0.1	0.9	0.3
N-PENTANE.....	TRACE	0.2	0.1
ISOPENTANE.....	0.1	0.3	0.4
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	TRACE	0.2	0.1
NITROGEN.....	0.3	2.0	10.6
OXYGEN.....	0.0	0.0	0.9
ARGON.....	0.0	TRACE	0.1
HYDROGEN.....	0.4	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	3.7
CARBON DIOXIDE.....	2.4	0.2	22.9
HELIUM.....	0.01	0.02	0.17
HEATING VALUE*.....	1001	1182	763
SPECIFIC GRAVITY.....	0.588	0.586	0.923

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 5. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES DURING 1960 - 1972

	INDEX SAMPLE 14708	INDEX SAMPLE 15010	INDEX SAMPLE 14707
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	UINTA	UINTA	UINTA
FIELD.....	WILDCAT	WILDCAT	YELLOW CREEK
WELL NAME.....	AMOCO GULF WI UNIT NO. 1	BRUFF UNIT NO. 4	AMOCO GULF WI UNIT NO. 1
LOCATION.....	SEC. 2, T14N, R121W	SEC. 17, T18N, R112W	SEC. 2, T14N, R121W
OWNER.....	AMOCO & GULF	AMOCO PRODUCTION CO.	AMOCO & GULF
COMPLETED.....	NOT GIVEN	04/11/77	NOT GIVEN
SAMPLED.....	06/10/76	05/20/77	06/09/76
FORMATION.....	JURA-TWIN CREEK	CRET-FRONTIER	JURA-TWIN CREEK
GEOLOGIC PROVINCE COOF.....	535	535	535
DEPTH, FEET.....	5260	11514	5260
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OPEN FLOW, PCFD.....	2750	4024	2750
COMPONENT, MOLE PCT			
METHANE.....	77.6	93.8	77.5
ETHANE.....	8.7	3.5	8.8
PROPANE.....	4.1	0.4	4.0
N-BUTANE.....	1.3	0.3	1.3
ISOBUTANE.....	1.2	0.1	1.2
N-PENTANE.....	0.4	0.2	0.3
ISOPENTANE.....	0.5	0.1	0.6
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.3	0.2	0.3
NITROGEN.....	5.7	1.2	5.8
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.1	0.1
HELIUM.....	0.08	0.02	0.08
HEATING VALUE.....	1186	1064	1188
SPECIFIC GRAVITY.....	0.724	0.600	0.728

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 6. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1960 - 1972

	INDEX SAMPLE 14308	INDEX SAMPLE 15053	INDEX SAMPLE 12135
STATE.....	ALABAMA	ARKANSAS	KANSAS
COUNTY.....	ESCAMBIA	LINCOLN	ELLSWORTH
FIELD.....	BIG ESCAMBIA CREEK	GULF COAST AREA	NOT GIVEN
PLANT NAME.....	MALLARD EXPLORATION CO.	GLENDALDE COMPRESSOR STA.	NOT GIVEN
LOCATION.....	6 IN. TO MALLARD PLANT	24 INCH	NOT GIVEN
OWNER.....	EXXON CO.: U.S.A.	MISSISSIPPI RIVER TRANS. CO.	NORTHERN HELEX CO.
SAMPLED.....	03/19/75	12/11/79	12/05/69
FORMATION.....	JURA-SMACKOVER	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	210	240	385
PRESSURE, PSIG.....	640	608	NOT GIVEN
FLOW, MCFD.....	1400	417000	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	37.7	96.2	76.4
ETHANE.....	14.6	2.1	5.8
PROPANE.....	18.7	0.4	2.9
N-BUTANE.....	11.8	0.1	1.0
ISOBUTANE.....	7.4	0.1	0.0
N-PENTANE.....	3.0	0.1	0.0
ISOPENTANE.....	4.2	TRACE	0.0
CYCLOPENTANE.....	0.1	TRACE	0.0
HEXANES PLUS.....	0.8	0.1	0.0
NITROGEN.....	1.5	0.5	13.2
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	0.0	0.0	0.1
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.4	TRACE
HELIUM.....	0.01	TRACE	0.40
HEATING VALUE*.....	2129	1039	987
SPECIFIC GRAVITY.....	1.273	0.582	0.680

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 6. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1960 - 1972

	INDEX SAMPLE 13250	INDEX SAMPLE 13251	INDEX SAMPLE 13252
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	LYON	LYON	LYON
FIELD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
PLANT NAME.....	OLPE COMPRESSOR STA.	OLPE COMPRESSOR STA.	OLPE COMPRESSOR STA.
LOCATION.....	100 LINE	200 LINE	300 LINE
OWNER.....	PANHANDLE EASTERN PL. CO.	PANHANDLE EASTERN PL. CO.	PANHANDLE EASTERN PL. CO.
SAMPLED.....	NOT GIVEN	06/08/72	06/08/72
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	335	335	335
PRESSURE, PSIG.....	560	782	897
FLOW, MCFD.....	1AA	342000	417000
COMPONENT, MOLE PCT			
METHANE.....	84.8	86.2	76.3
ETHANE.....	5.9	5.4	7.7
PROPANE.....	1.2	1.0	4.3
N-BUTANE.....	0.1	0.1	0.5
ISOBUTANE.....	TRACE	0.1	0.3
N-PENTANE.....	TRACE	TRACE	0.1
ISOPENTANE.....	0.0	TRACE	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	TRACE	0.1
NITROGEN.....	7.8	6.7	10.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.4	0.3
HELIUM.....	0.02	0.11	0.02
HEATING VALUE*.....	999	1003	1063
SPECIFIC GRAVITY.....	0.630	0.625	0.700

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 6. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 7 13253	INDEX SAMPLE 8 7380	INDEX SAMPLE 9 13231
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	LYONS	MORTON	SEWARD
FIELD.....	NOT GIVEN	GREENWOOD	HUGOTON
PLANT NAME.....	OLPE COMPRESSOR STA.	GREENWOOD DISCH	LIBERAL COMPRESSOR STA.
LOCATION.....	400 LINE	SEC. 18, T33S, R43W	GRANT CO. INLET
OWNER.....	PANHANDLE EASTERN PL. CO.	COLORADO INTERSTATE GAS CO.	PANHANDLE EASTERN PL. CO.
SAMPLED.....	06/08/72	02/04/60	06/05/72
FORMATION.....	NOT GIVEN	PENN-VIRGIL	NOT GIVEN
GEOLOGIC PROVINCE CODE...	335	360	360
PRESSURE,PSIG.....	826	750	509
FLOW,MCFD.....	777	NOT GIVEN	761000
COMPONENT, MOLE PCT			
METHANE.....	81.5	52.3	71.6
ETHANE.....	4.7	8.1	6.3
PROPANE.....	0.9	9.0	4.0
N-BUTANE.....	0.1	5.6	1.2
ISOBUTANE.....	0.1	2.2	0.6
N-PENTANE.....	TRACE	2.2	0.4
ISOPENTANE.....	TRACE	2.2	0.3
CYCLOPENTANE.....	TRACE	0.5	0.1
HEXANES PLUS.....	0.1	2.0	0.4
NITROGEN.....	9.6	15.5	14.6
OXYGEN.....	1.8	TRACE	0.0
ARGON.....	0.1	TRACE	TRACE
HYDROGEN.....	TRACE	0.1	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.0	0.1	0.2
HELIUM.....	0.03	0.40	0.21
HEATING VALUE*.....	945	1477	1057
SPECIFIC GRAVITY.....	0.652	1.010	0.739

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY



TABLE 6. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 10 13232	INDEX SAMPLE 11 13419	INDEX SAMPLE 12 13413
STATE.....	KANSAS	TEXAS	TEXAS
COUNTY.....	SEWARD	HANSFORD	MOORE
FIELD.....	HUGOTON	HUGOTON,	NOT GIVEN
PLANT NAME.....	LIBERAL COMPRESSOR STA.	SHER-HAN	DUMAS COMPRESSOR STA.
LOCATION.....	SEWARD CO LINE	SHERMAN HELIUM PLANT INLET	HELIUM PLT. SUPPLY
OWNER.....	PANHANDLE EASTERN PL. CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
SAMPLED.....	06/05/72	10/04/72	10/05/72
FORMATION.....	NOT GIVEN	PERM-CHASE GROUP	NOT GIVEN
GEOLOGIC PROVINCE CODE...	360	360	440
PRESSURE, PSIG.....	190	365	200
FLOW, MCFD.....	16200	200000	300000
COMPONENT, MOLE PCT			
METHANE.....	82.1	71.6	72.6
ETHANE.....	8.6	7.0	7.3
PROPANE.....	2.2	4.3	4.7
N-BUTANE.....	0.2	1.3	1.5
ISOBUTANE.....	0.2	0.6	0.7
N-PENTANE.....	TRACE	0.4	0.4
ISOPENTANE.....	TRACE	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	TRACE	0.2	0.1
NITROGEN.....	6.0	13.8	11.8
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.1	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.1	TRACE
HELIUM.....	0.30	0.55	0.54
HEATING VALUE*	1056	1058	1097
SPECIFIC GRAVITY.....	0.651	0.732	0.733

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 6. - SAMPLES FROM PIPELINES IN THE UNITED STATES DURING 1960 - 1979

	INDEX SAMPLE 13781	INDEX SAMPLE 1412072
STATE.....	TEXAS	TEXAS
COUNTY.....	MOORE	PECOS
FIELD.....	NOT GIVEN	GOMEZ & GRAY RANCH
PLANT NAME.....	DUMAS-PHILLIPS PLANT	NOT GIVEN
LOCATION.....	DUMAS PHILLIPS PLANT INLET	NOT GIVEN
OWNER.....	PHILLIPS PETROLEUM CO.	COASTAL STATES GAS PROD. CO.
SAMPLED.....	10/26/73	10/01/69
FORMATION.....	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE.....	440	900
PRESSURE, PSIG.....	NOT GIVEN	235000
FLOW, MCFD.....	NOT GIVEN	
COMPONENT, MOLE PCT		
METHANE.....	74.1	96.4
ETHANE.....	6.9	0.2
PROPANE.....	4.5	TRACE
N-BUTANE.....	1.3	0.0
ISOBUTANE.....	0.7	0.0
N-PENTANE.....	0.3	0.0
ISOPENTANE.....	0.3	0.0
CYCLOPENTANE.....	0.1	0.0
HEXAVES PLUS.....	0.2	0.0
NITROGEN.....	11.0	0.3
OXYGEN.....	0.0	0.0
ARGON.....	TRACE	TRACE
HYDROGEN.....	0.0	0.1
HYDROGEN SULFIDE.....	0.0	0.0
CARBON DIOXIDE.....	TRACE	3.0
HELIUM.....	0.52	0.02
HEATING VALUE.....	1098	980
SPECIFIC GRAVITY.....	0.725	0.585

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

TABLE 7. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES DURING 1960 - 1979

	INDEX SAMPLE 14455	INDEX SAMPLE 9187	INDEX SAMPLE 9186
COUNTRY.....	CANADA	CANADA	CANADA
STATE OR PROVINCE.....	ALBERTA	ALBERTA	ALBERTA
FIELD.....	LAMARWAY	WILLOCAT	WILLOCAT
WELL NAME.....	LAMARWAY NO G-1	SINCLAIR WILLOCAT NO. 10-5	SINCLAIR WILLOCAT NO. 10-5
LOCATION.....	10-32-35-4 W5M	SEC. 5, T21, R13W	SEC. 5, T21, R13W
OWNER.....	AMOCO CANADA PET. CO.	SINCLAIR CANADA OIL CO.	SINCLAIR CANADA OIL CO.
COMPLETED.....	NOT GIVEN	03/10/63	03/10/63
SAMPLED.....	06/05/75	10/--/63	10/--/63
FORMATION.....	CRET-	CRET-VIKING	-BLAIRMORE BASAL
DEPTH, FEET.....	7996	2592	3336
WELLHEAD PRESSURE, PSIA.....	2959	935	1466
OPEN FLOW, MCFD.....	NOT GIVEN	1300	8600
COMPONENT, MOLE PCT			
METHANE.....	79.2	92.2	92.1
ETHANE.....	11.1	2.8	1.9
PROPANE.....	4.9	1.3	0.5
N-BUTANE.....	0.8	0.3	0.1
ISOBUTANE.....	0.8	0.1	0.3
N-PENTANE.....	0.1	TRACE	0.1
ISOPENTANE.....	0.3	0.2	TRACE
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	TRACE	0.2
NITROGEN.....	1.6	2.6	3.8
OXYGEN.....	0.1	0.0	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	0.4	0.9
HELIUM.....	0.01	0.00	0.10
HEATING VALUE.....	1213	1040	1008
SPECIFIC GRAVITY.....	0.714	0.605	0.606

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 7. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES DURING 1960 - 1979

	INDEX SAMPLE 8962	INDEX SAMPLE 14163	INDEX SAMPLE 14164
COUNTRY.....	CANADA	THAILAND	THAILAND
STATE OR PROVINCE.....	SASKATCHEWAN	NOT GIVEN	NOT GIVEN
FIELD.....	KINDERSLEY	WILDCAT	WILDCAT
WELL NAME.....	KENAWEE KINDERSLEY	UNION NO. 13-1	UNION NO. 13-1
LOCATION.....	SEC. 5, T30, R25W3M	GULF OF THAILAND	GULF OF THAILAND
OWNER.....	CANADIAN KENAWEE LTD.	UNION OIL CO. OF CALIFORNIA	UNION OIL CO. OF CALIFORNIA
COMPLETED.....	10/04/62	DRILL STEM TEST NO. 6	DRILL STEM TEST NO. 3
SAMPLED.....	05/09/63	05/18/74	05/14/74
FORMATION.....	-VICTORIA	TERT-	TERT-
DEPTH, FEET.....	838	5918	6892
WELLHEAD PRESSURE, PSIG.....	300	1765	2076
OPEN FLOW, MCFD.....	8500	8080	9510
COMPONENT, MOLE PCT			
METHANE.....	94.8	67.0	67.3
ETHANE.....	0.0	10.6	10.4
PROPANE.....	0.0	6.1	5.7
N-BUTANE.....	0.0	1.4	1.2
ISOBUTANE.....	0.0	1.6	1.4
N-PENTANE.....	0.0	0.3	0.2
ISOPENTANE.....	0.0	0.6	0.6
CYCLOPENTANE.....	0.0	0.1	0.1
HEXANES PLUS.....	0.0	0.3	0.2
NITROGEN.....	4.9	0.6	0.9
OXYGEN.....	0.0	TRACE	0.1
ARGON.....	0.0	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	11.4	11.9
HELIUM.....	0.04	TRACE	TRACE
HEATING VALUE.....	960	1185	1152
SPECIFIC GRAVITY.....	0.578	0.854	0.845

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY  
 \*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 7. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES DURING 1960 - 1979

	INDEX SAMPLE 14165	INDEX SAMPLE 14166	INDEX SAMPLE 11150
COUNTRY.....	THAILAND	THAILAND	UNITED KINGDOM
STATE OR PROVINCE.....	NOT GIVEN	NOT GIVEN	NORTH SEA
FIELD.....	WILOCAT	WILOCAT	INDEFATIGABLE
WELL NAME.....	UNION NO. 13-1	UNION NO. 13-1	49/18-3
LOCATION.....	GULF OF THAILAND	GULF OF THAILAND	NOT GIVEN
OWNER.....	UNION OIL CO. OF CALIFORNIA	UNION OIL CO. OF CALIFORNIA	AMOCO U. K. PETROLEUM LTD.
COMPLETFD.....	DRILL STEM TEST NO. 2	DRILL STEM TEST NO. 4	05/25/67
SAMPLED.....	05/12/74	05/16/74	08/17/67
FORMATION.....	TERT-	TERT-	PERM-ROTLIEGENDES
DEPTH, FEET.....	7730	6740	8824
WELLHEAD PRESSURE, PSIG...	2123	2002	3391
OPEN FLOW, MCFD.....	5900	5500	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	67.4	67.4	91.2
ETHANE.....	9.2	10.7	3.6
PROPANE.....	4.5	6.1	0.8
N-BUTANE.....	1.1	1.3	0.4
ISOBUTANE.....	1.1	1.5	0.0
N-PENTANE.....	0.2	0.2	0.0
ISOPENTANE.....	0.4	0.5	0.0
CYCLOPENTANE.....	0.1	0.1	0.0
HEXANES PLUS.....	0.2	0.2	0.0
NITROGEN.....	1.1	0.8	3.3
OXYGEN.....	TRACE	0.1	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	14.6	11.2	0.5
HELIUM.....	TRACE	TRACE	0.05
HEATING VALUE.....	1078	1171	1023
SPECIFIC GRAVITY.....	0.843	0.845	0.604

\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE



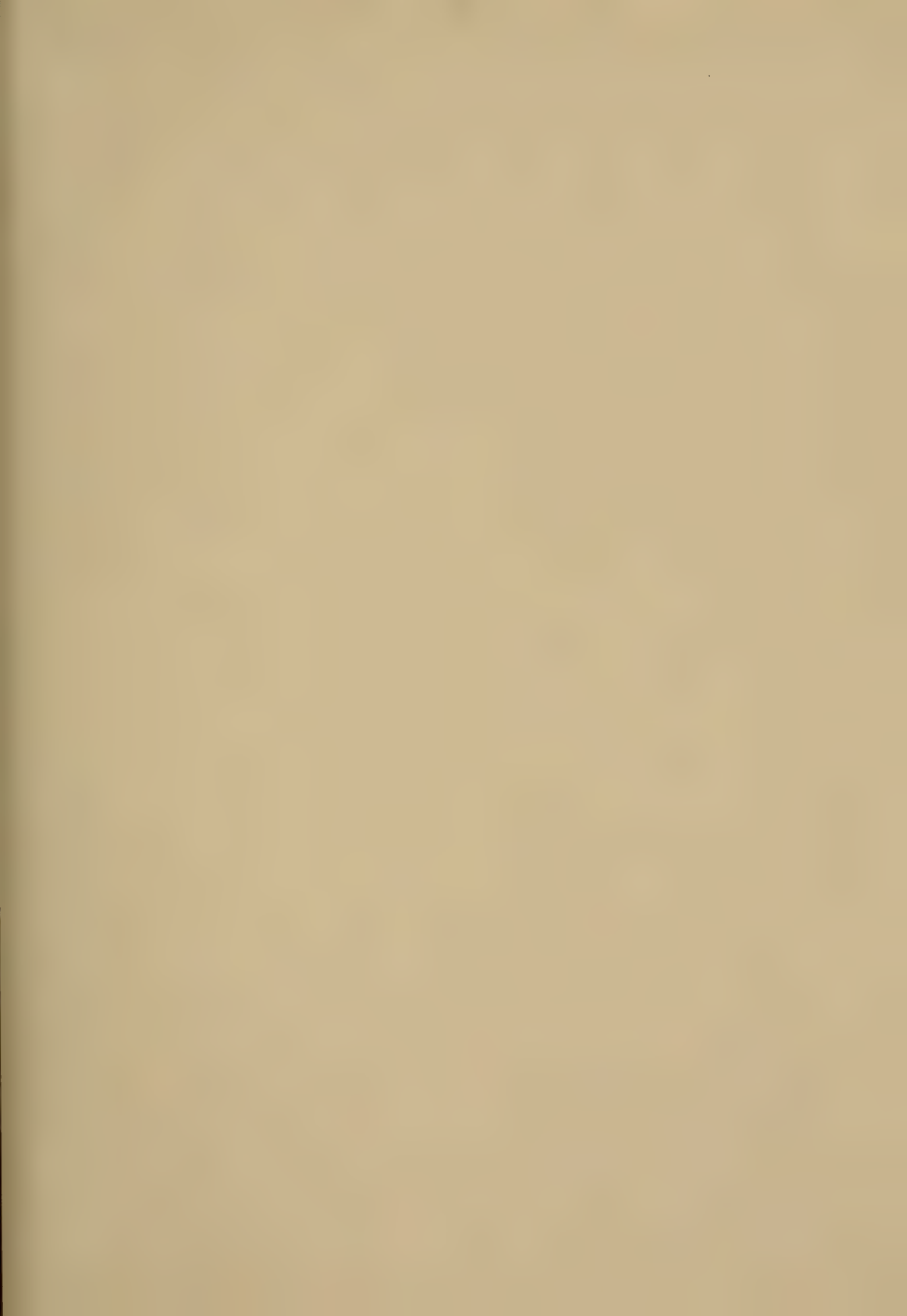
TABLE 7. - SAMPLES FROM GAS AND OIL WELLS IN FOREIGN COUNTRIES DURING 1960 - 1979

	INDEX SAMPLE 11149	
COUNTRY.....	UNITED KINGDOM	
STATE OR PROVINCE.....	NORTH SEA	
FIELD.....	LEMAN	
WELL NAME.....	49/27-4	
LOCATION.....	NOT GIVEN	
OWNER.....	AMOCO U. K. PETROLEUM LTD.	
COMPLETED.....	05/25/67	
SAMPLED.....	10/09/67	
FORMATION.....	PERM-ROTTLIEGENDES	
DEPTH, FEET.....	6547	
WELLHEAD PRESSURE, PSIG.....	2572	
OPEN FLOW, MCFD.....	NOT GIVEN	
COMPONENT, MOLE PCT		
METHANE.....	93.1	-----
ETHANE.....	2.9	-----
PROPANE.....	0.4	-----
N-BUTANE.....	0.2	-----
ISOBUTANE.....	0.0	-----
N-PENTANE.....	0.0	-----
ISOPENTANE.....	0.0	-----
CYCLOPENTANE.....	0.0	-----
HEXANES PLUS.....	0.0	-----
NITROGEN.....	2.8	-----
OXYGEN.....	0.4	-----
ARGON.....	TRACE	-----
HYDROGEN.....	TRACE	-----
HYDROGEN SULFIDE**.....	0.0	-----
CARBON DIOXIDE.....	0.1	-----
HELIUM.....	0.02	-----
HEATING VALUE*.....	1012	-----
SPECIFIC GRAVITY.....	0.590	-----

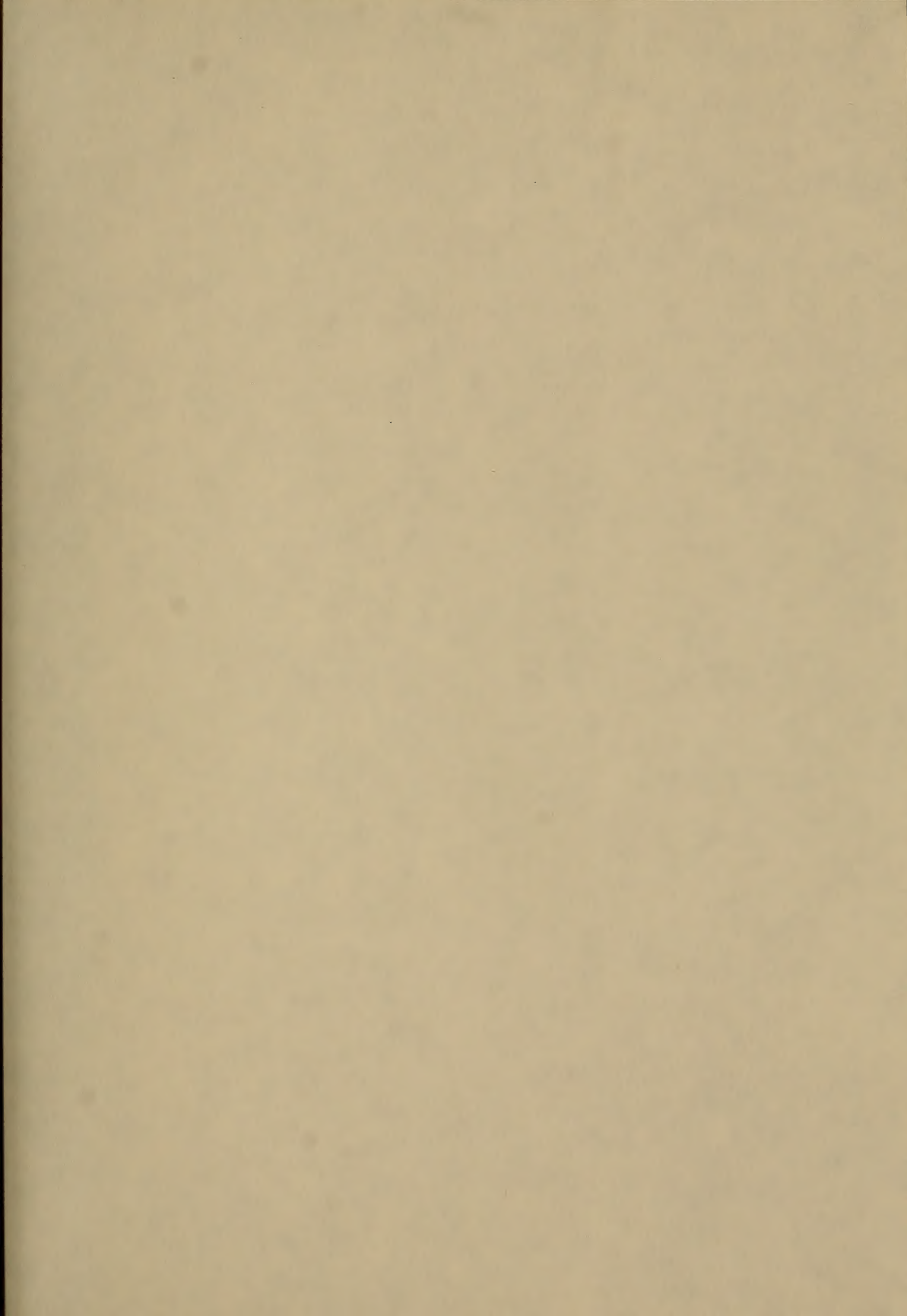
\* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

\*\* DUE TO THE ABSORPTION OF H<sub>2</sub>S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

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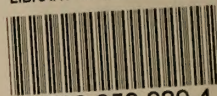




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